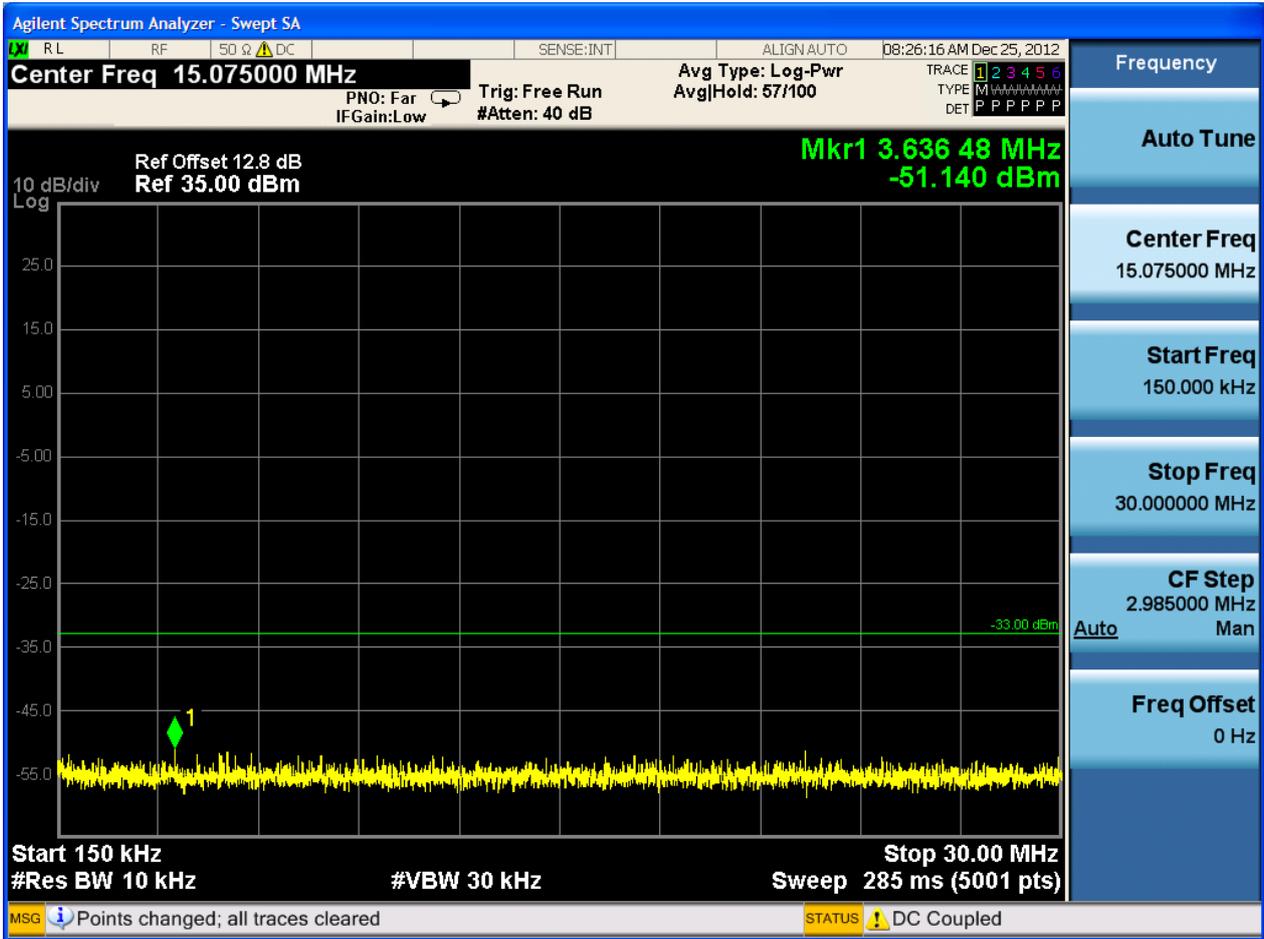
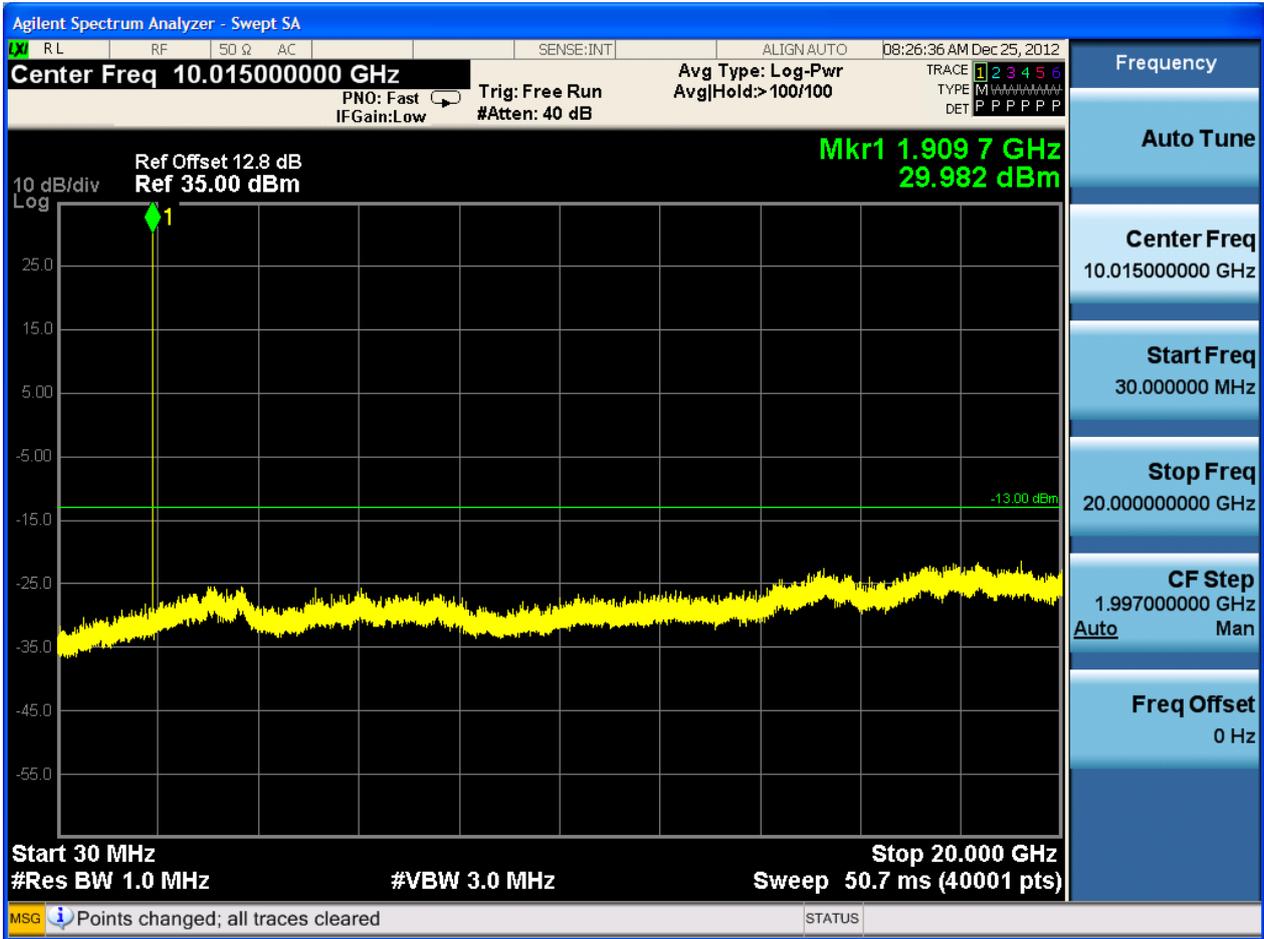




4.1.2.1.3 Test Channel = HCH



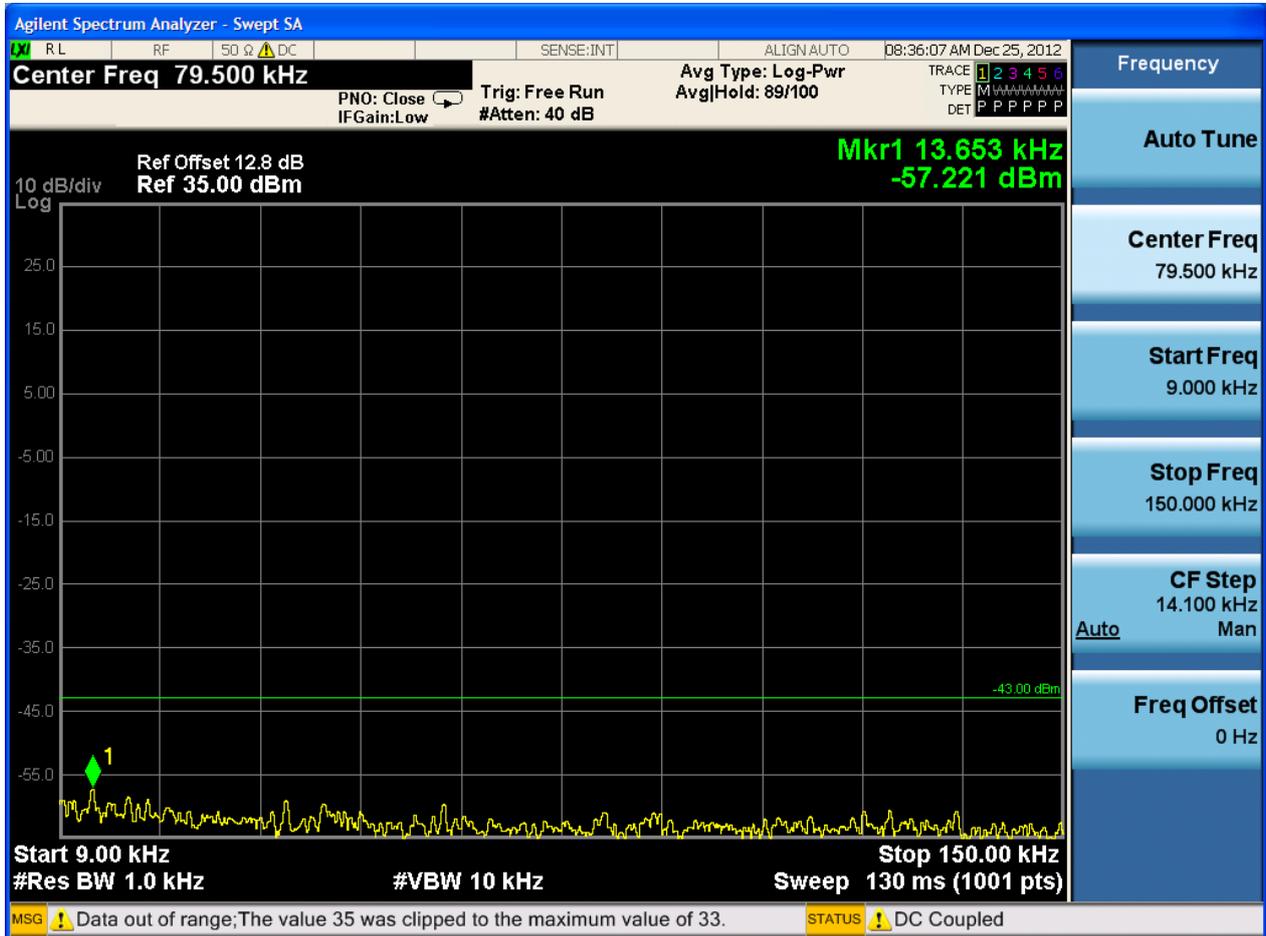


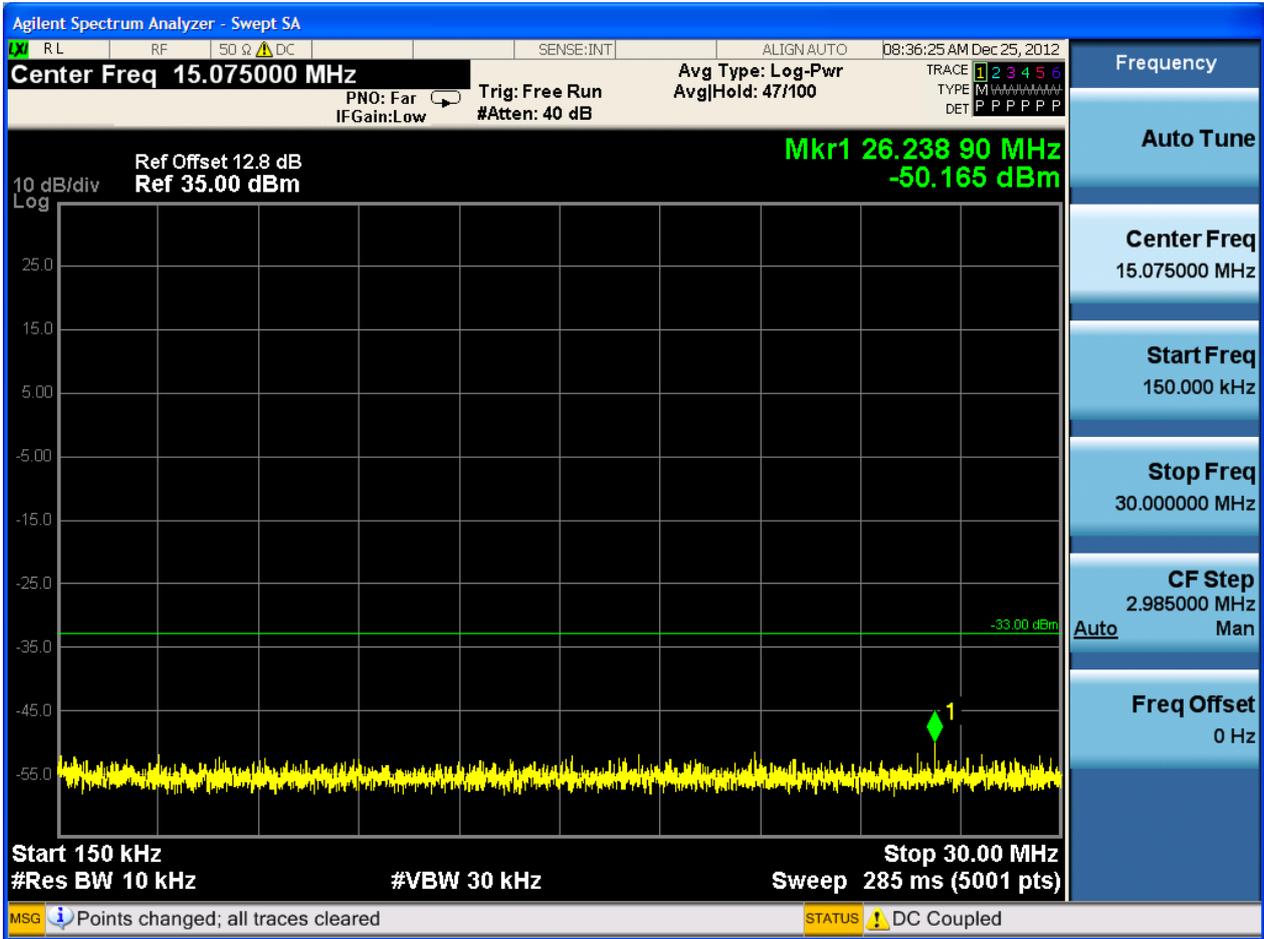


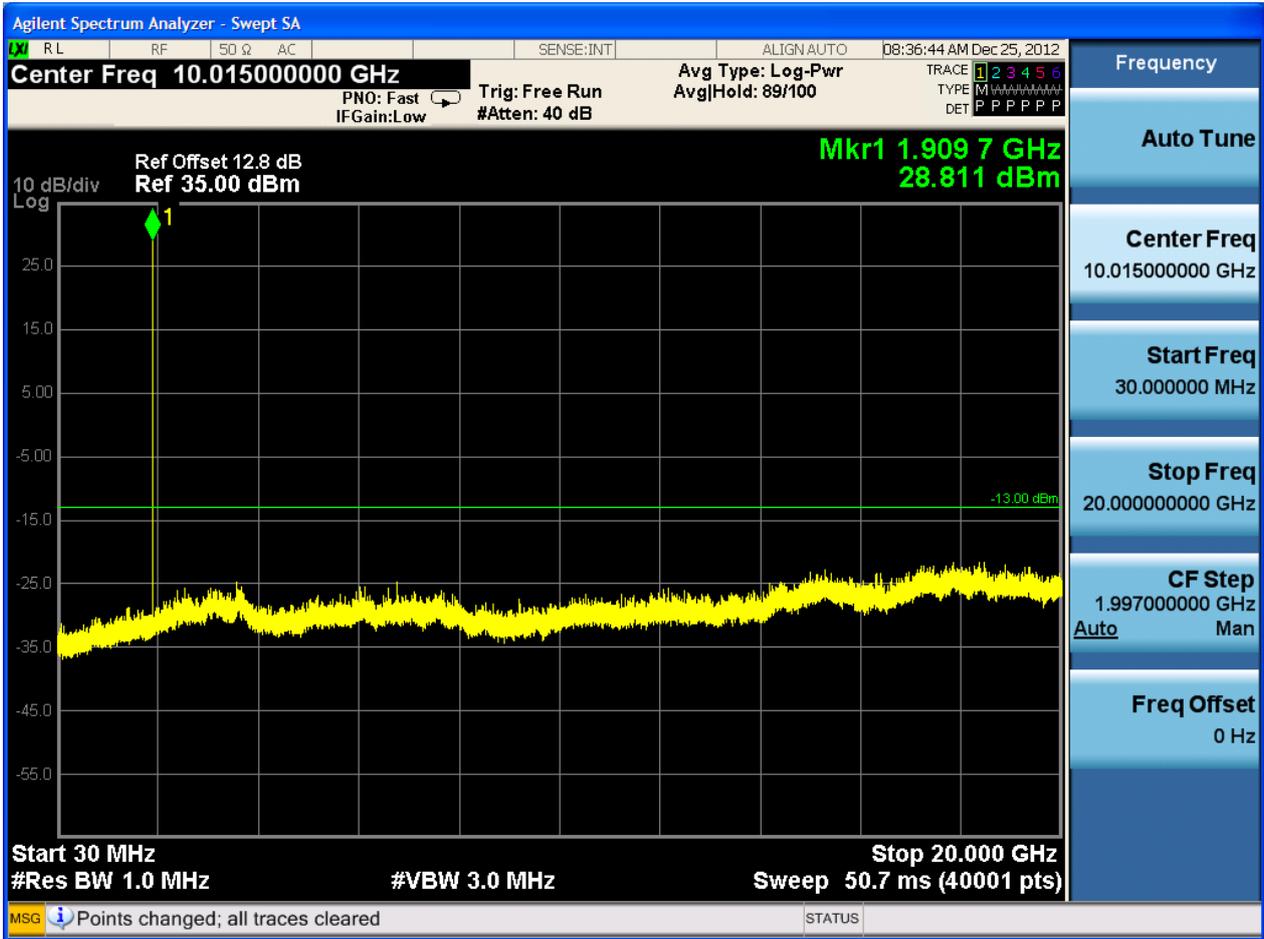


4.1.2.2 Test Mode = GSM/TM2

4.1.2.2.1 Test Channel = LCH

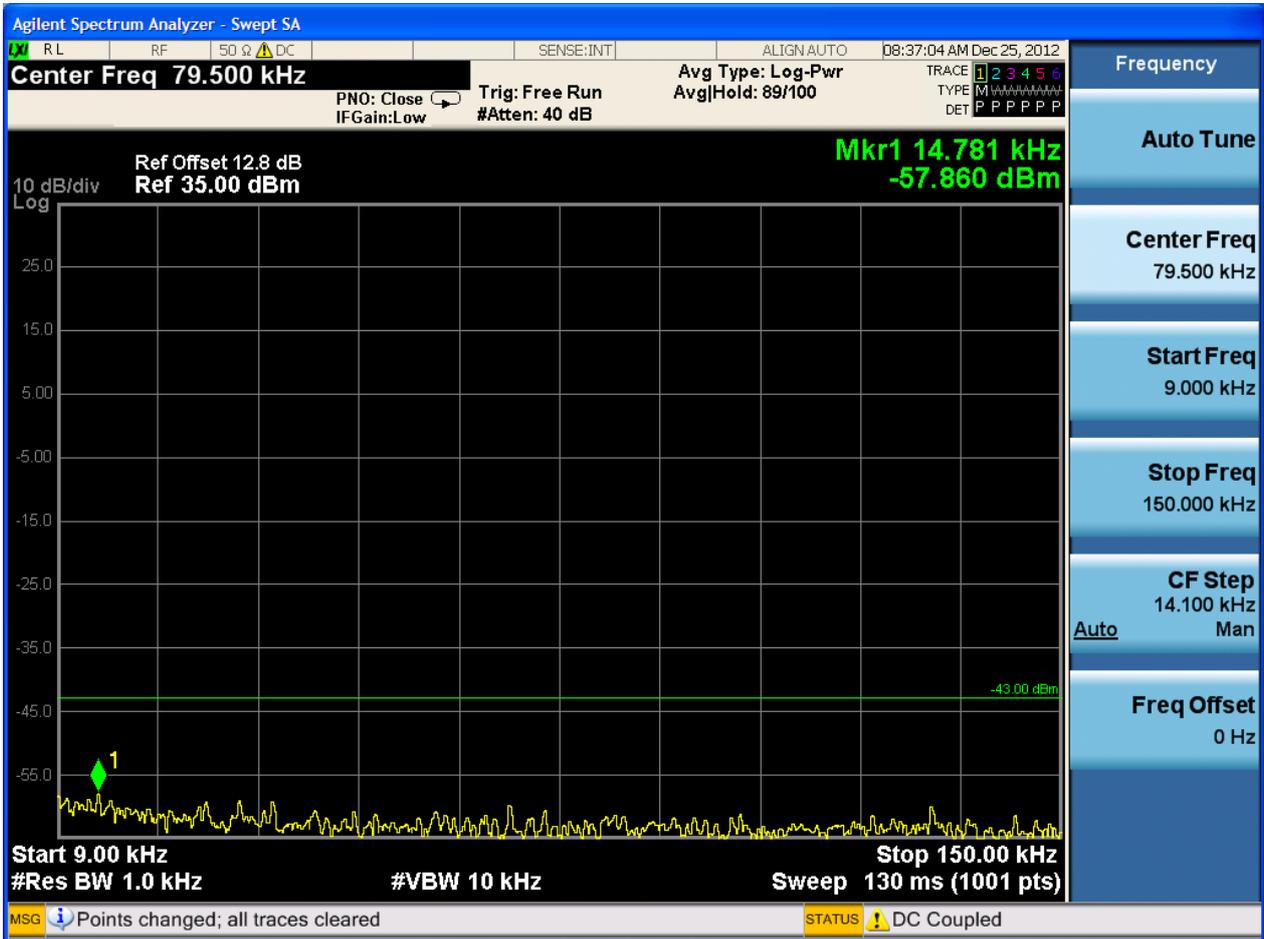


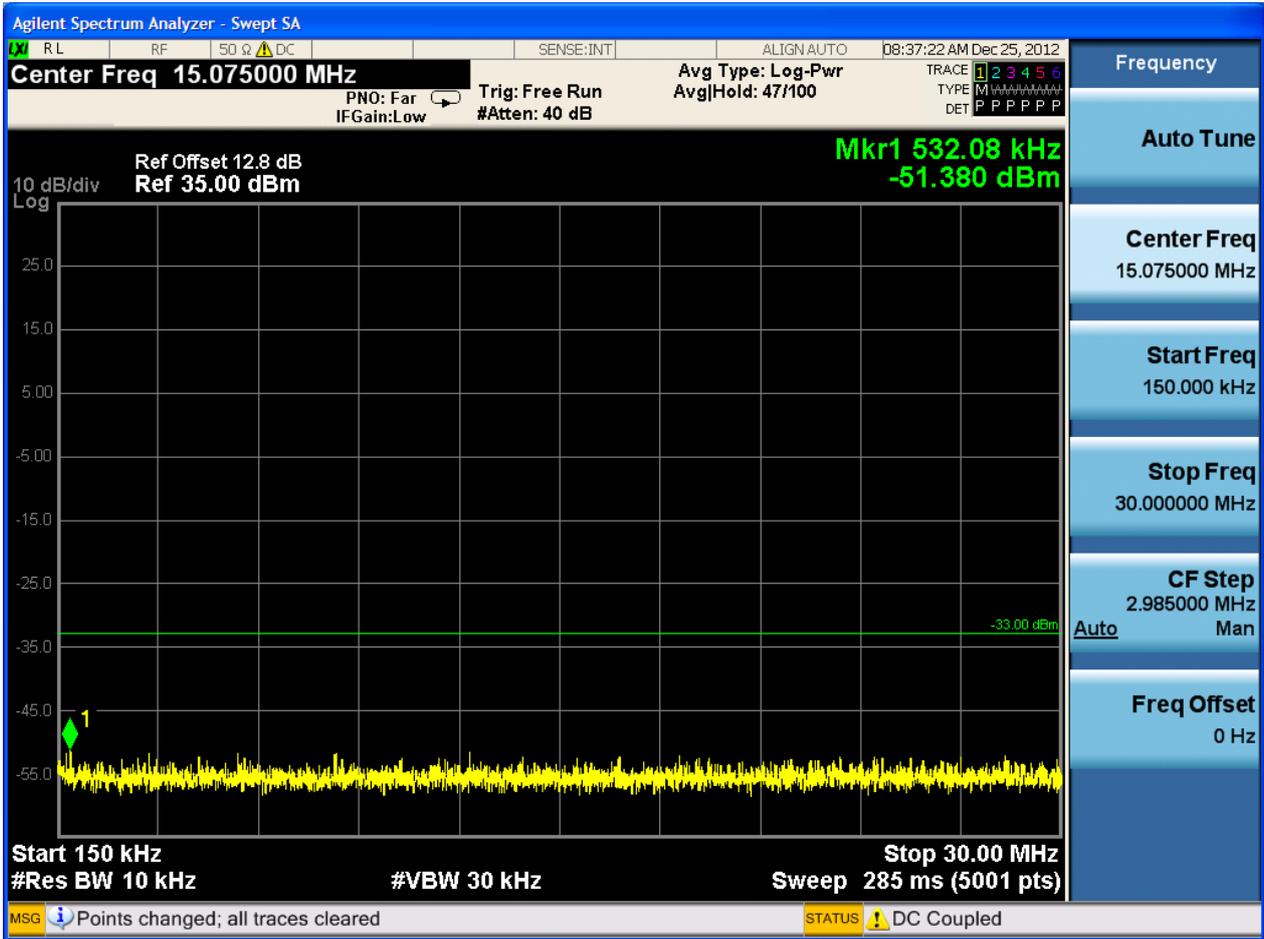


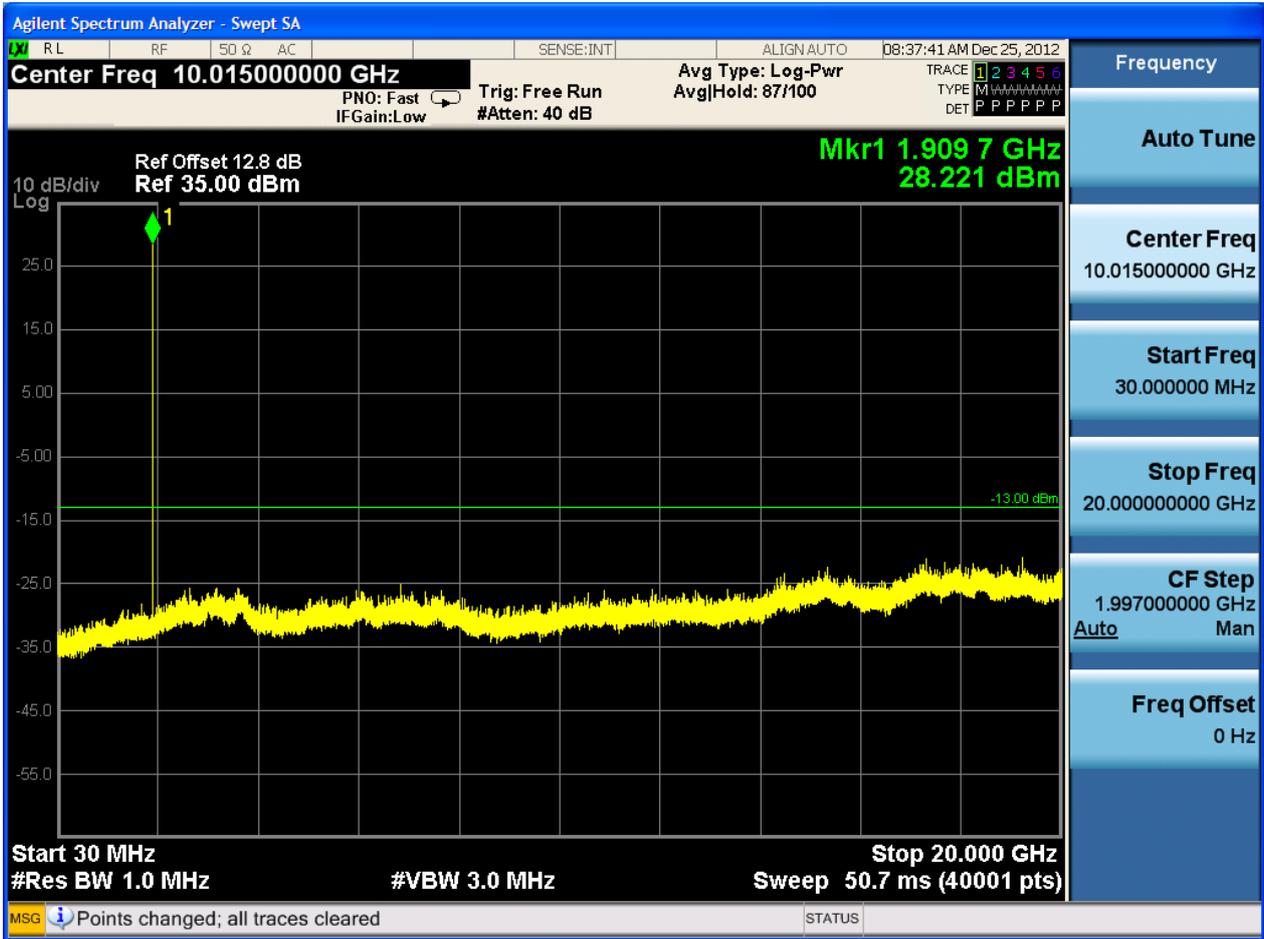




4.1.2.2.2 Test Channel = MCH

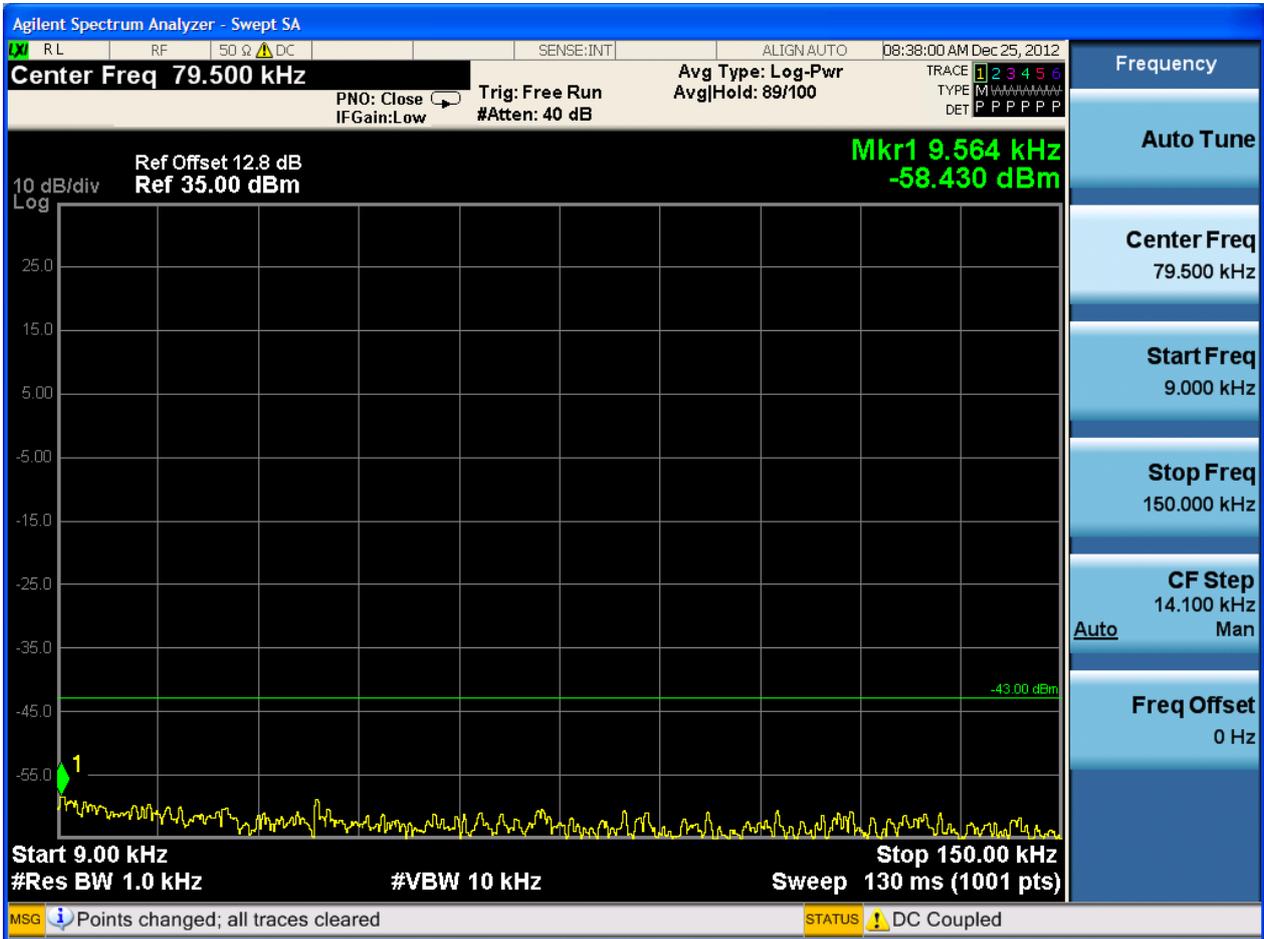


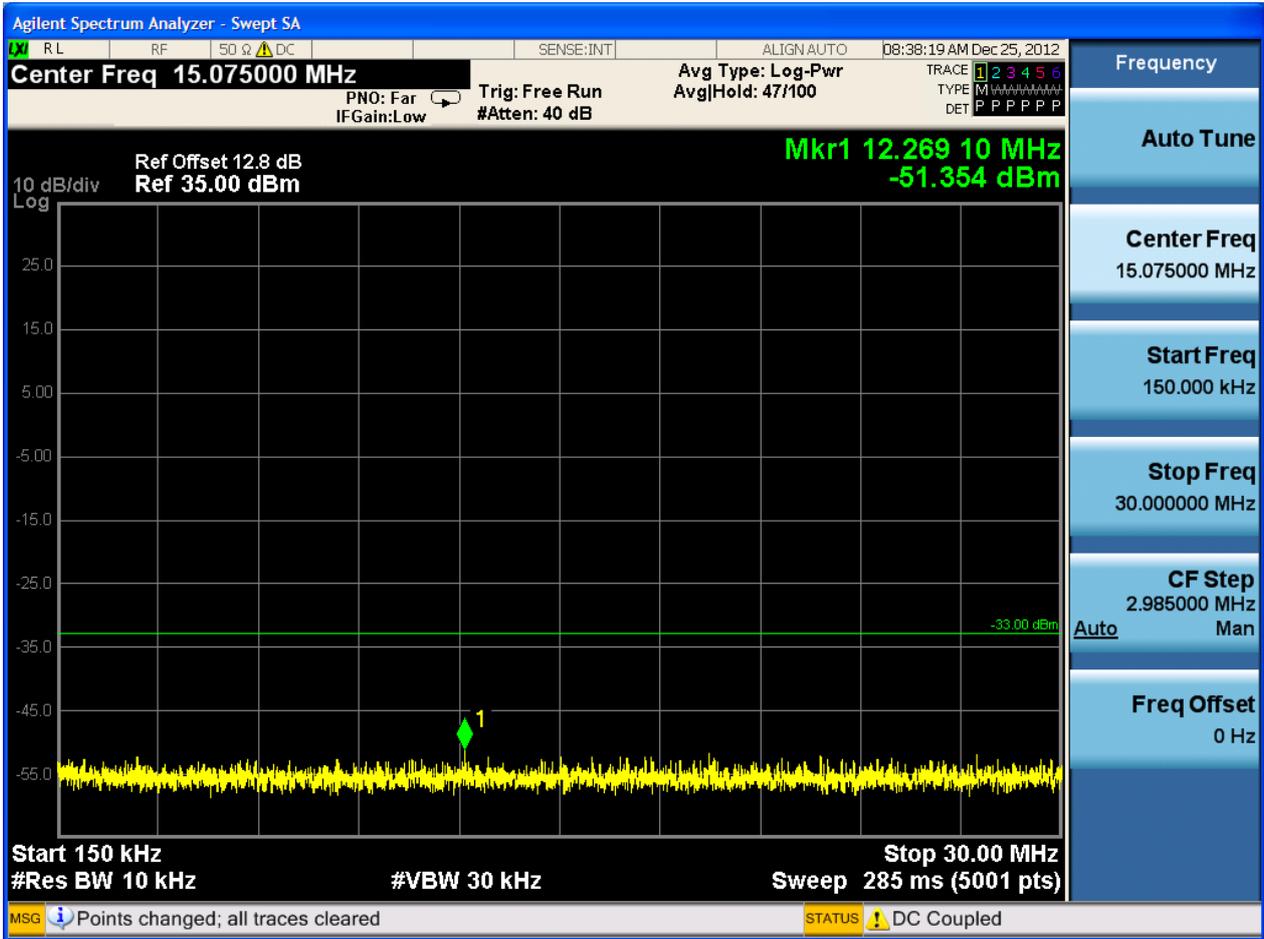






4.1.2.2.3 Test Channel = HCH







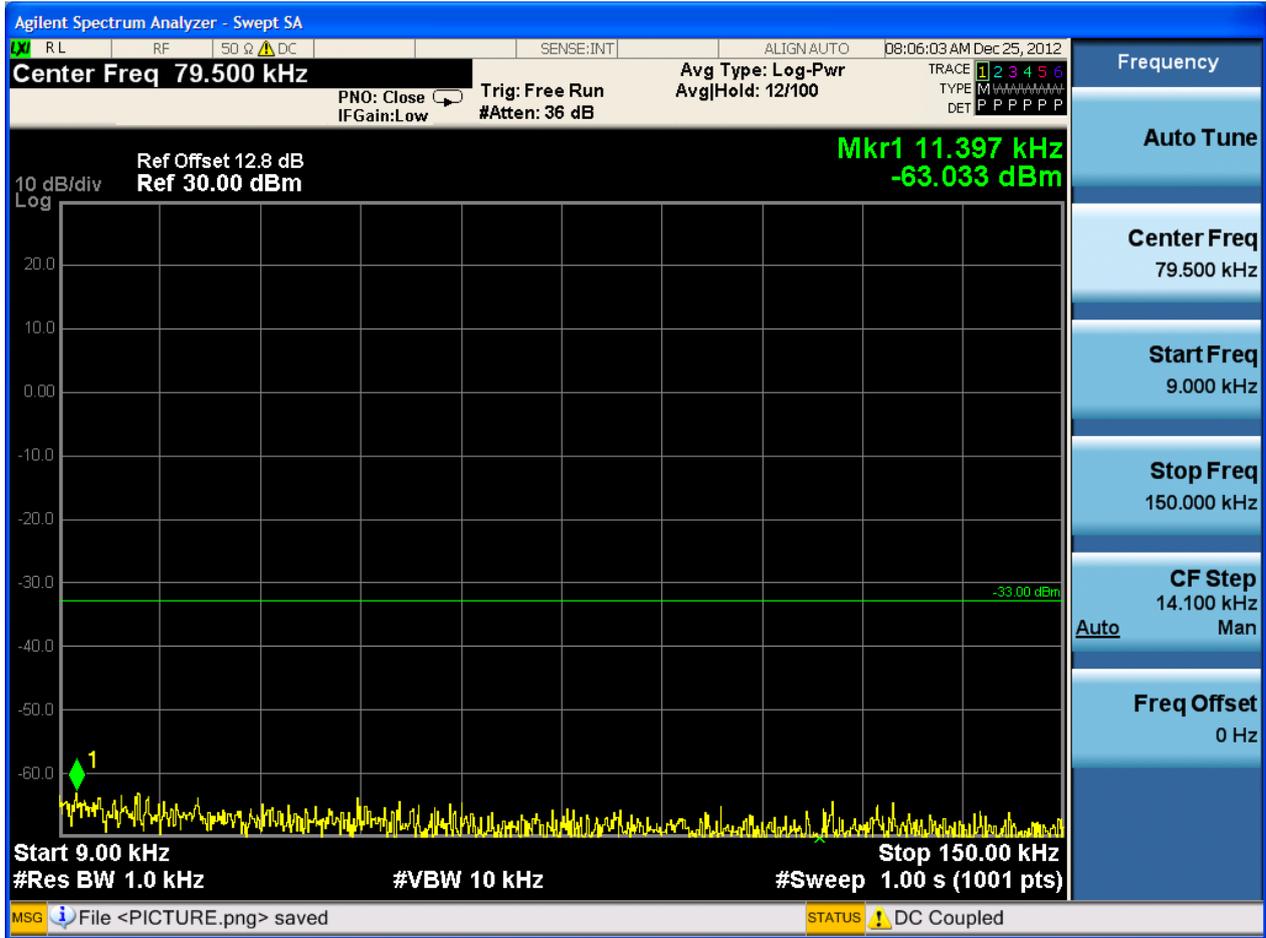


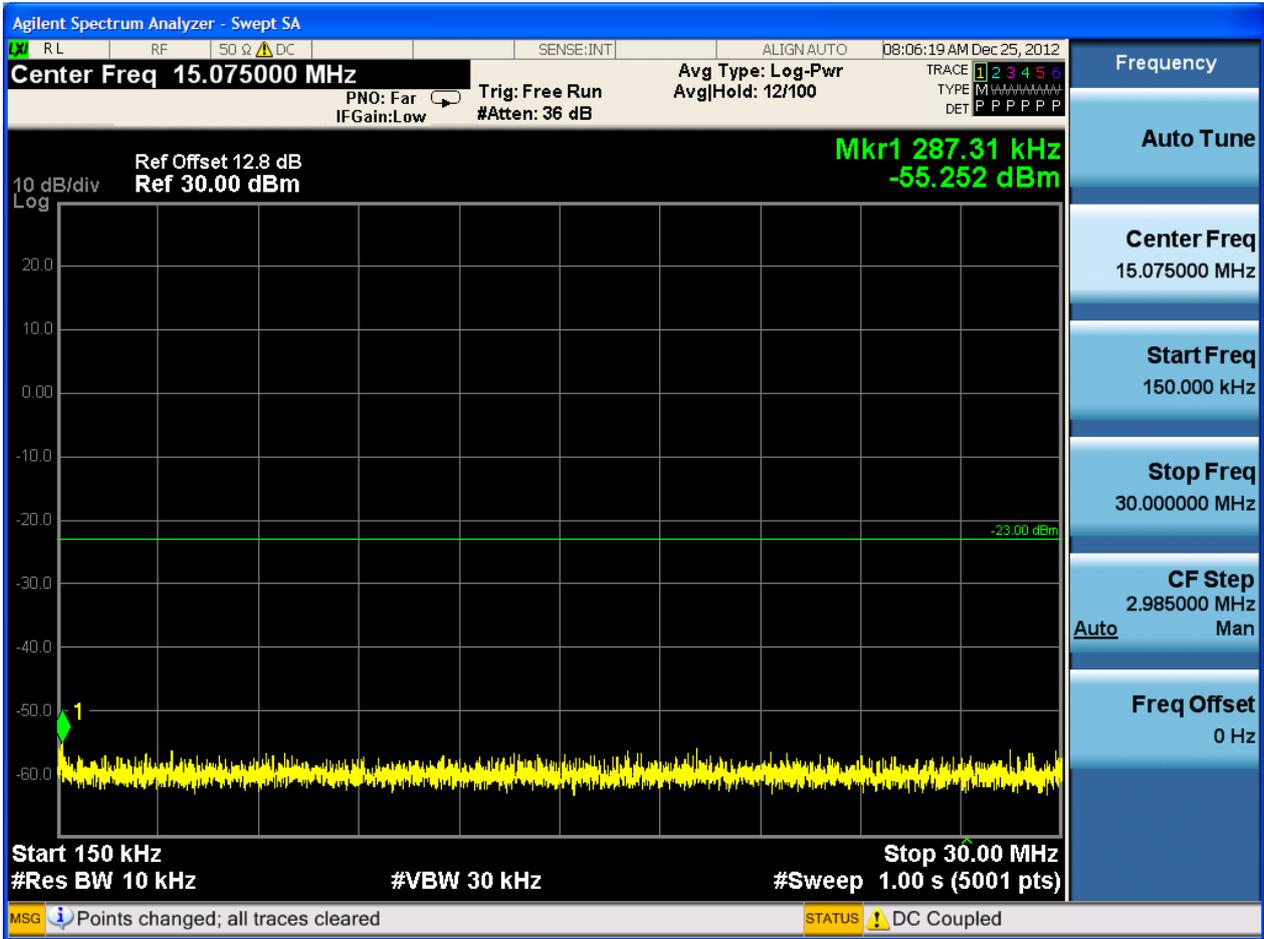
4.2 For UMTS

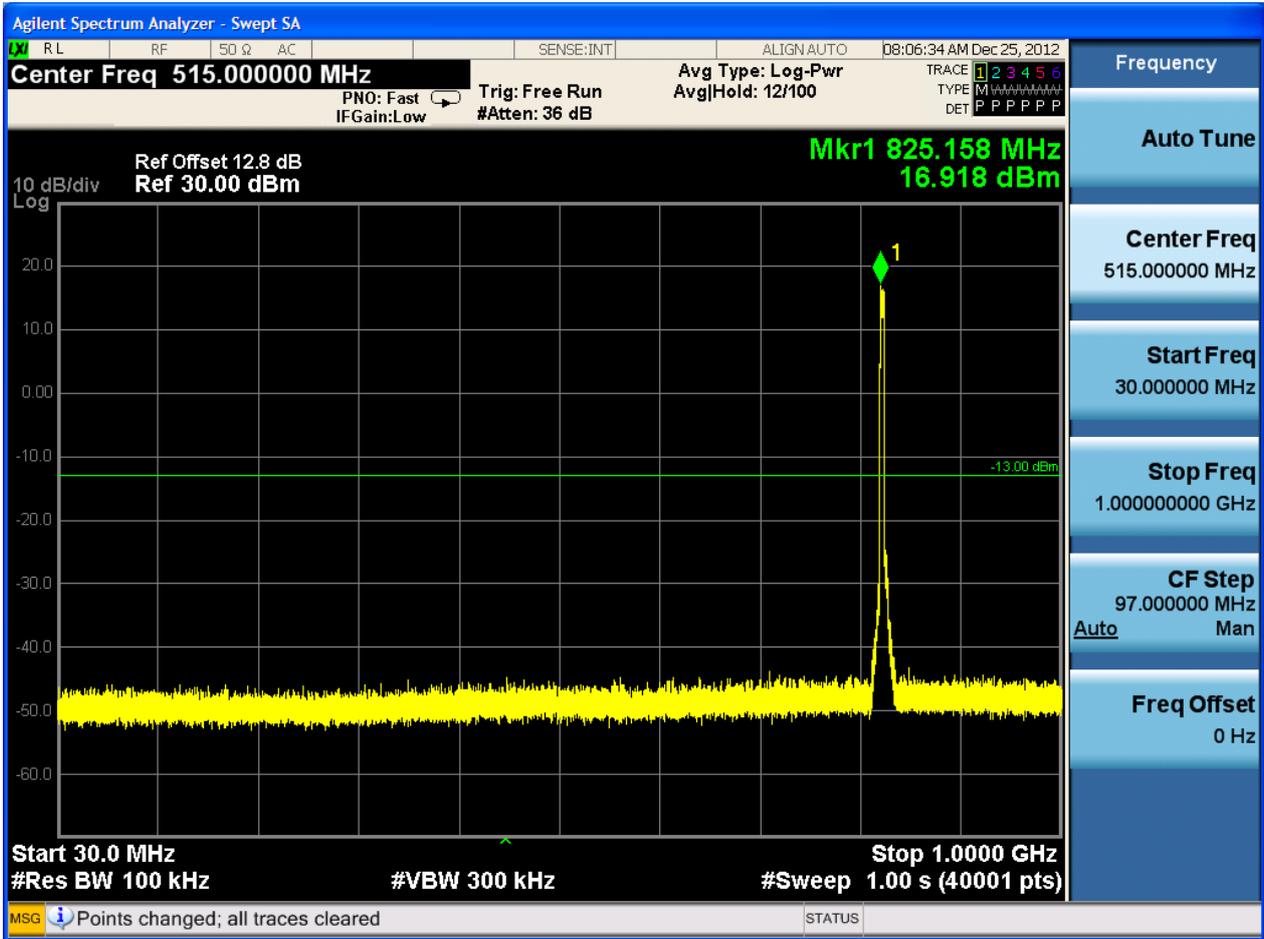
4.2.1 Test Band = WCDMA850

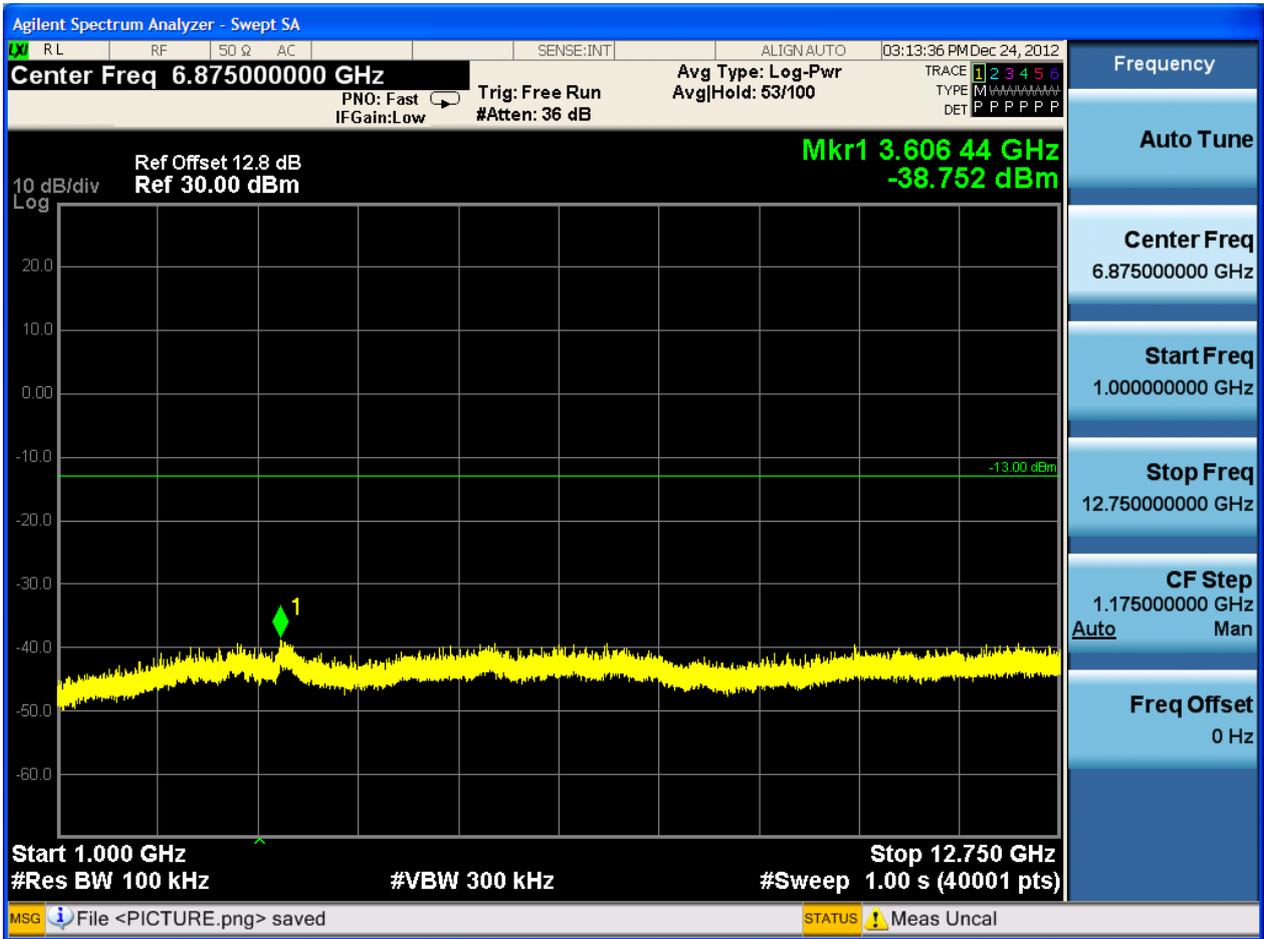
4.2.1.1 Test Mode = UMTS/TM1

4.2.1.1.1 Test Channel = LCH



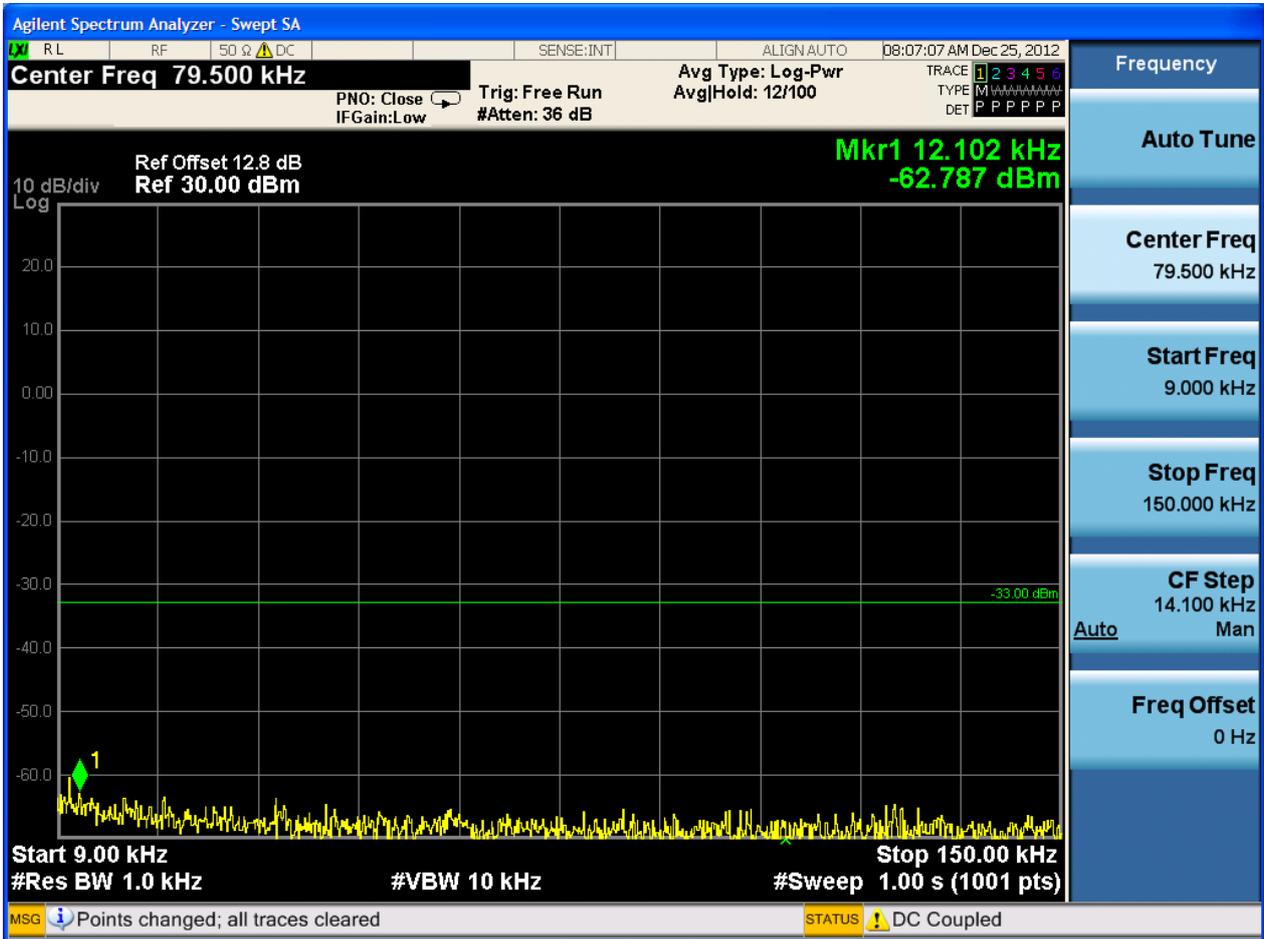


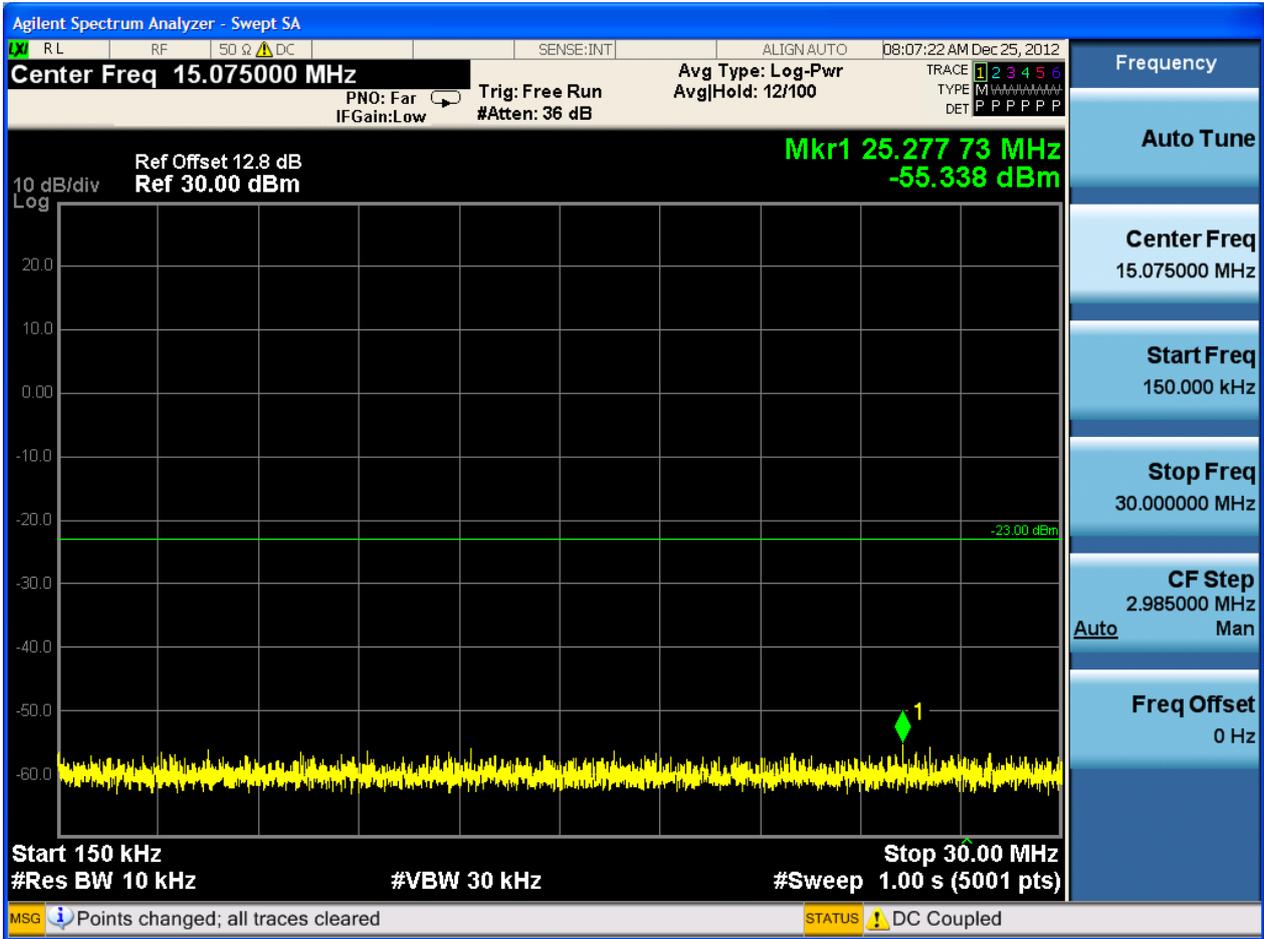


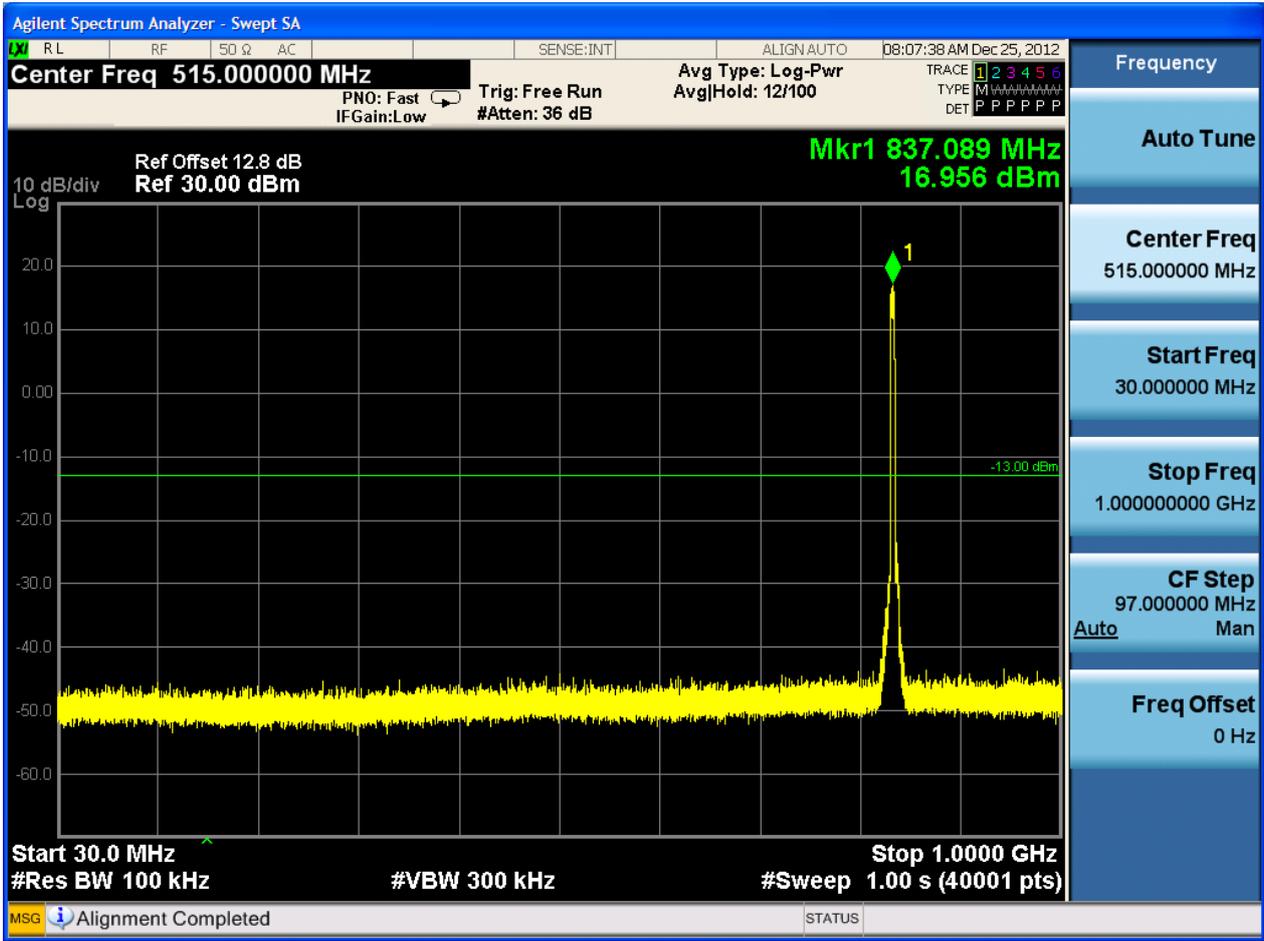




4.2.1.1.2 Test Channel = MCH

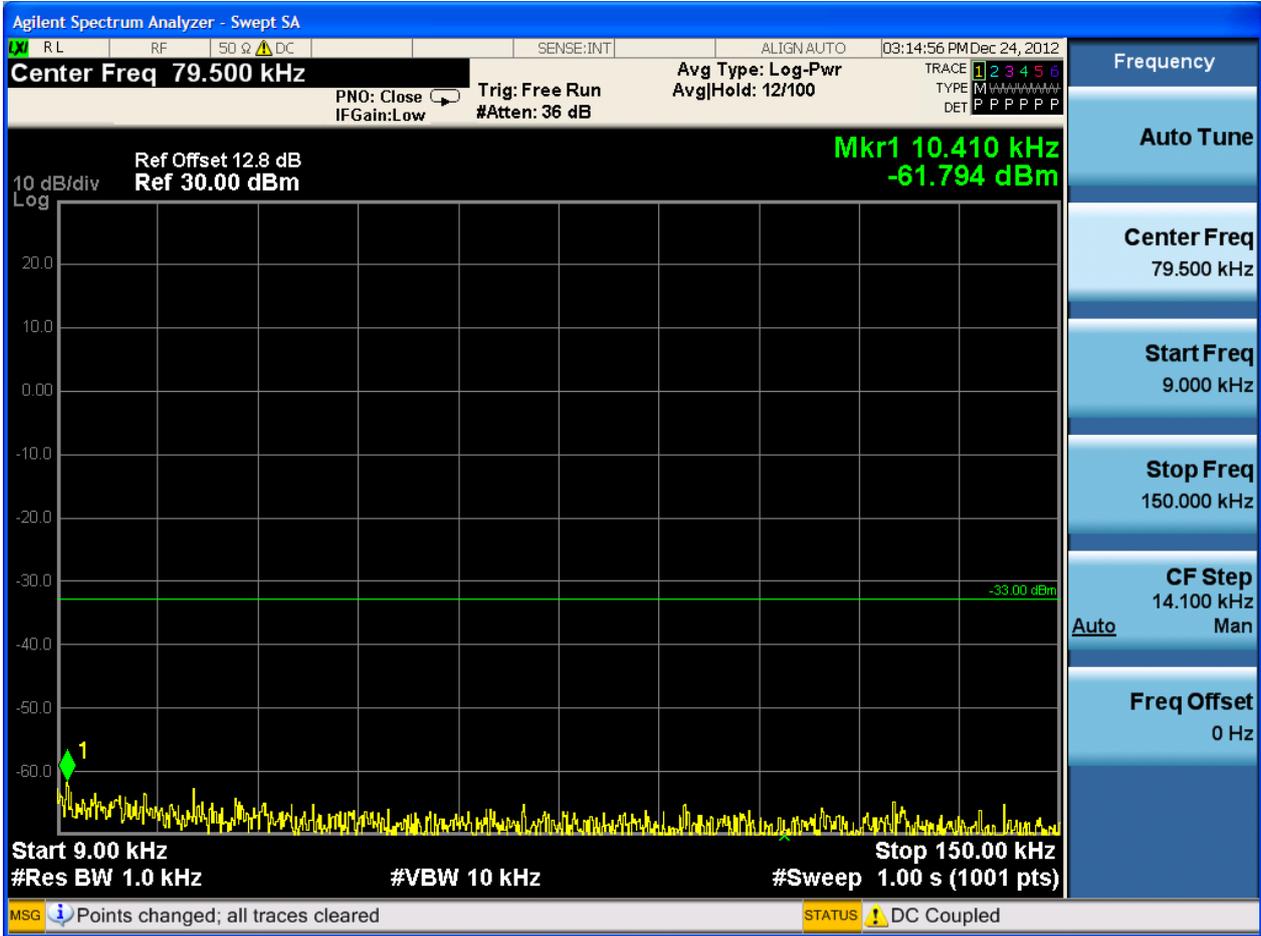


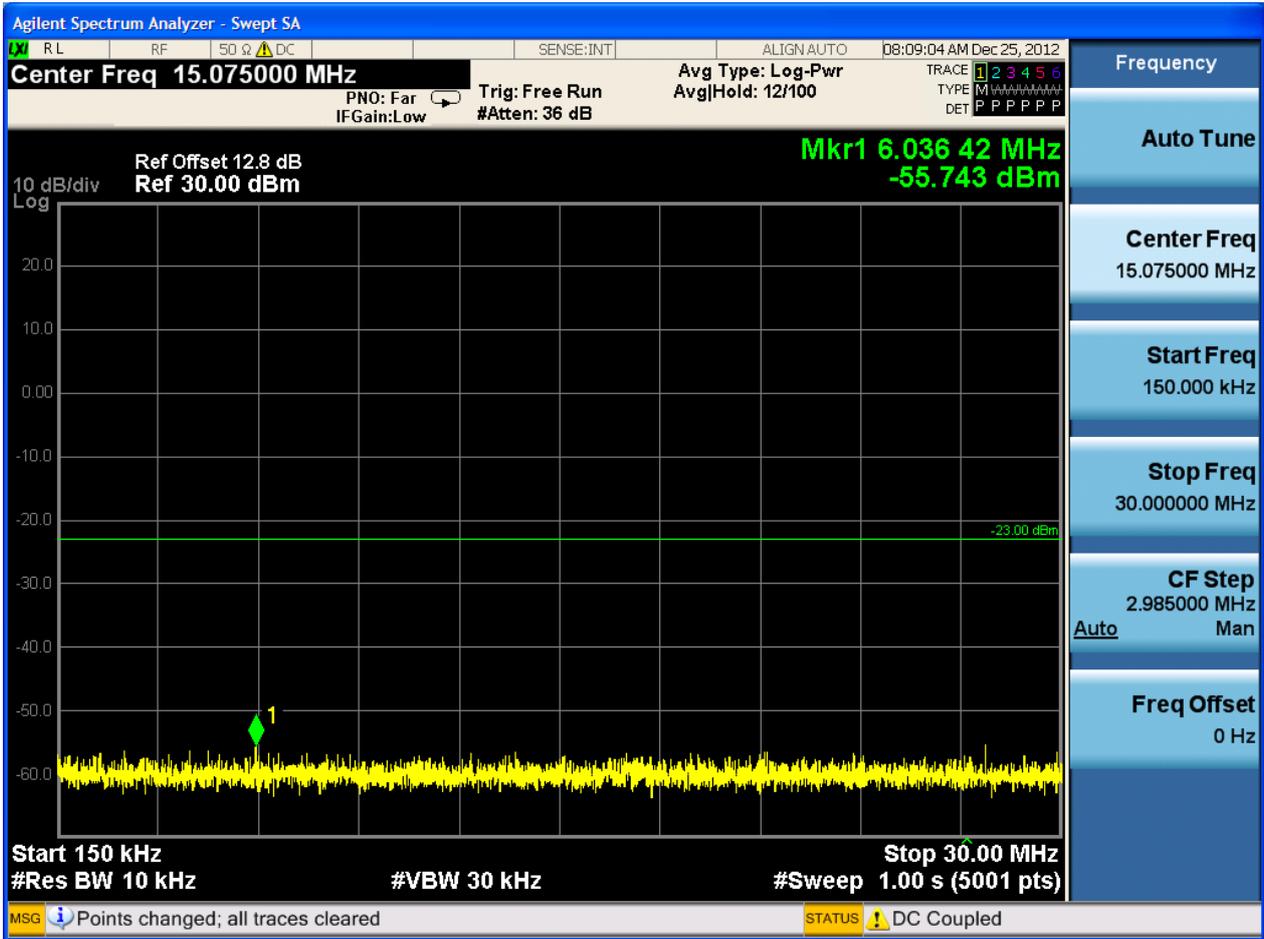


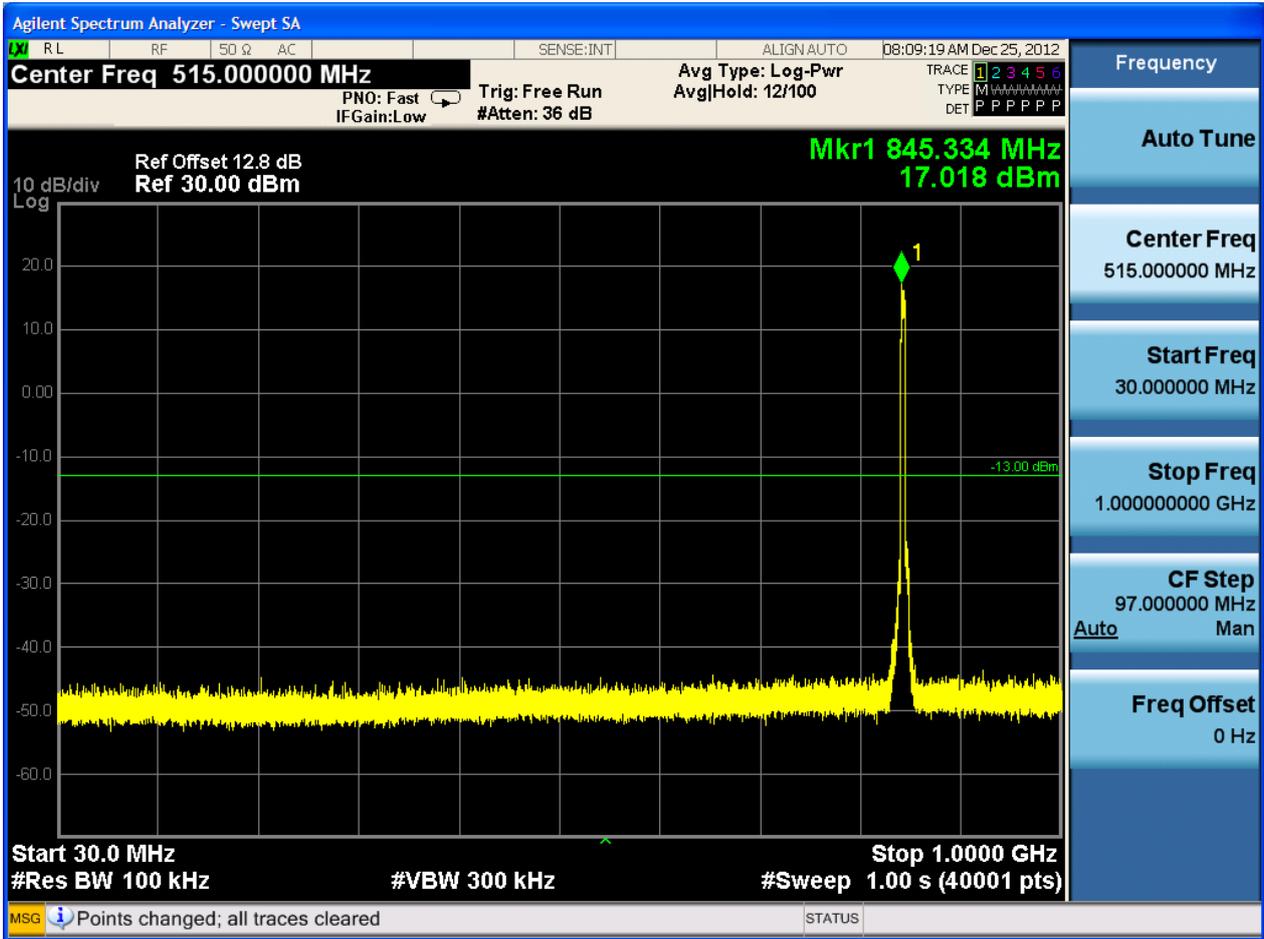


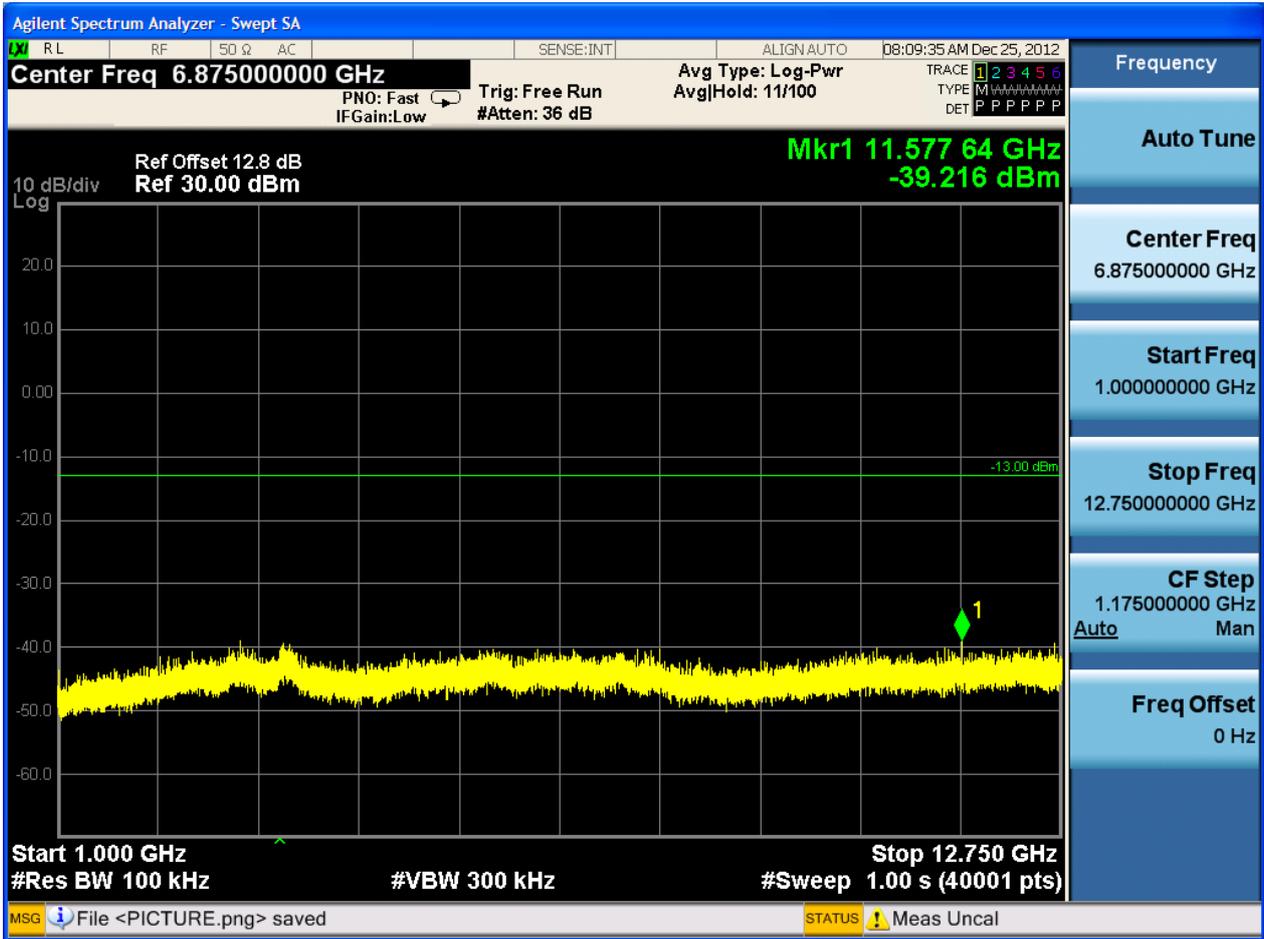


4.2.1.1.3 Test Channel = HCH







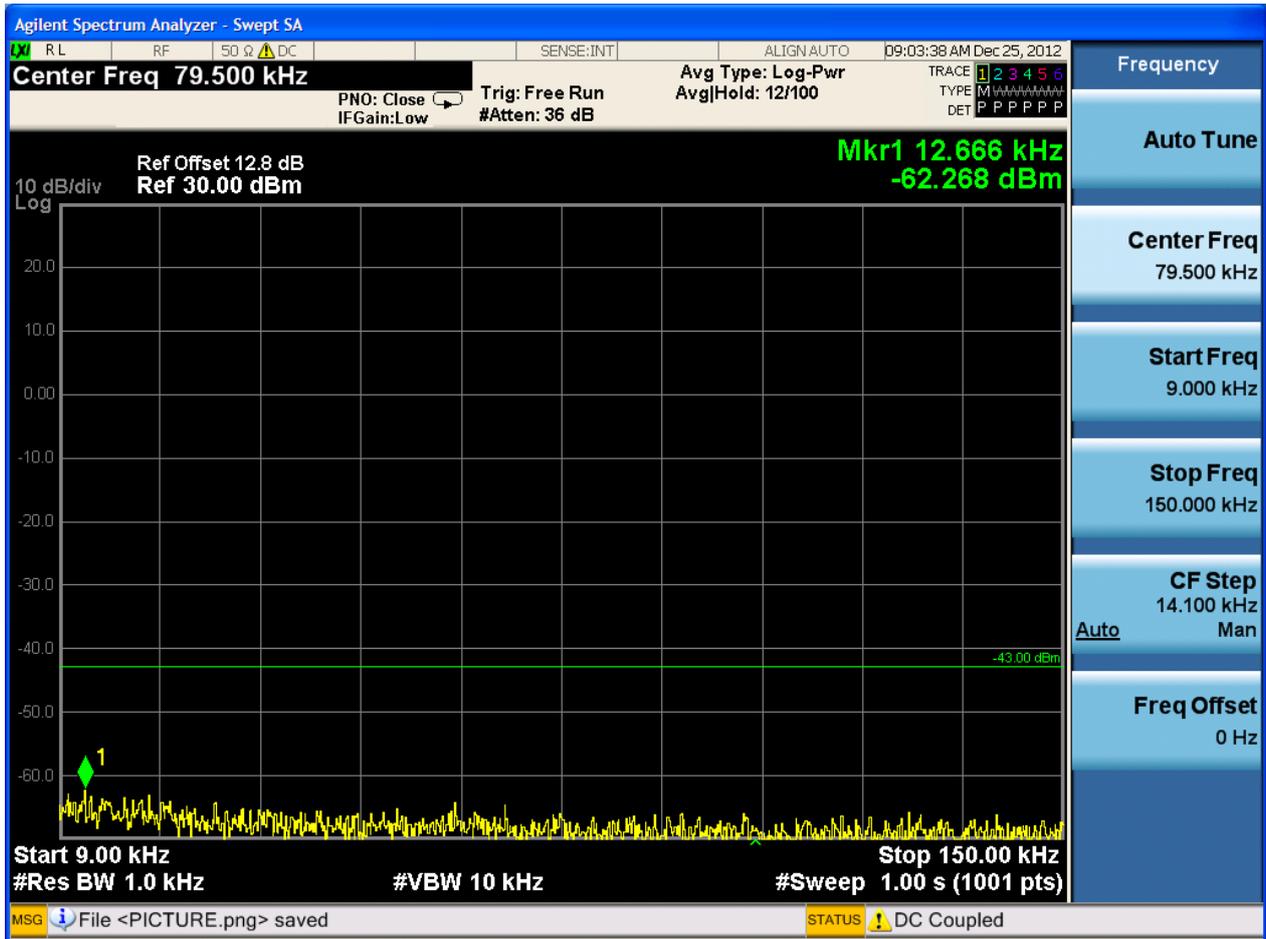


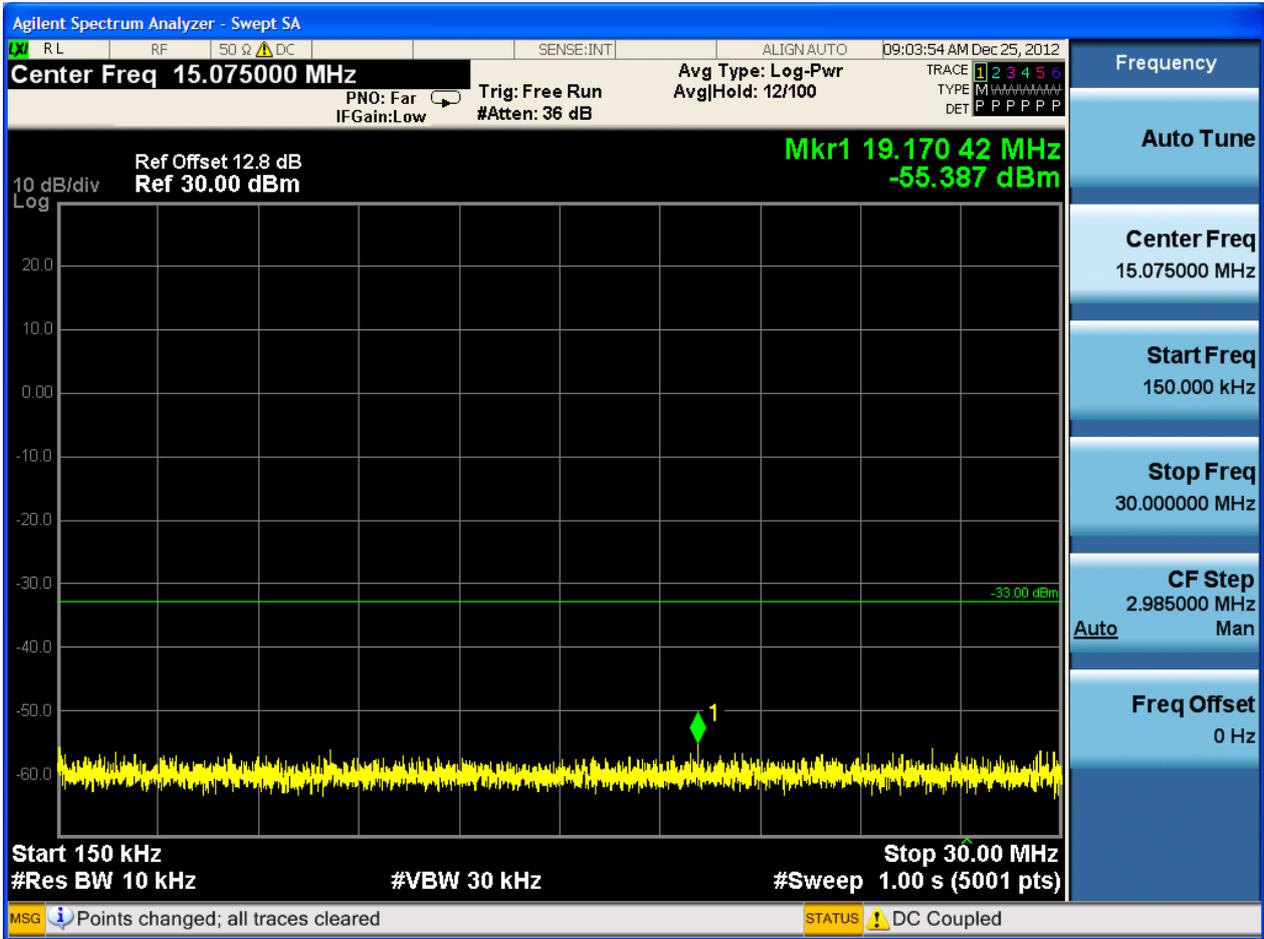


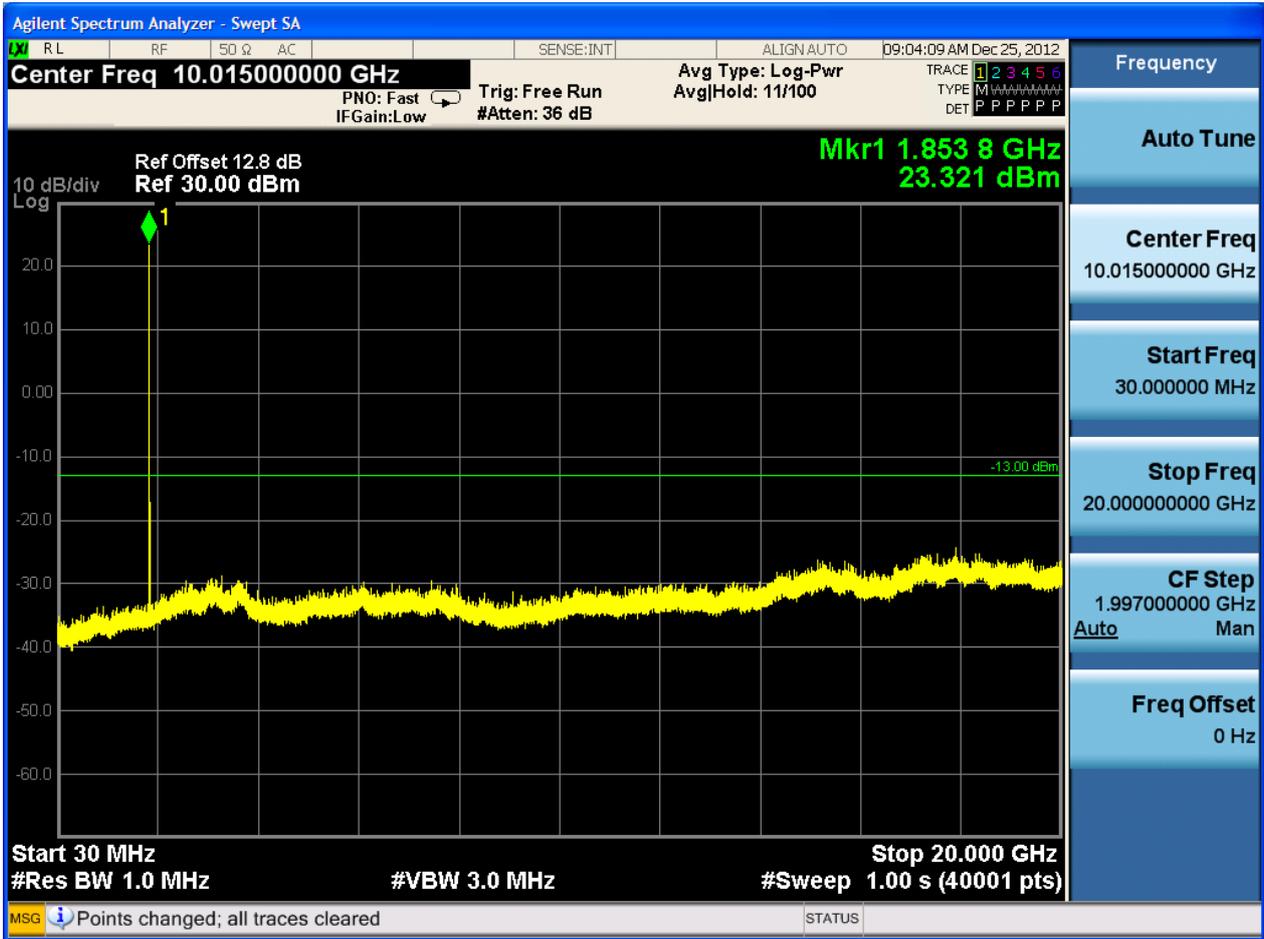
4.2.2 Test Band = WCDMA1900

4.2.2.1 Test Mode = UMTS/TM1

4.2.2.1.1 Test Channel = LCH

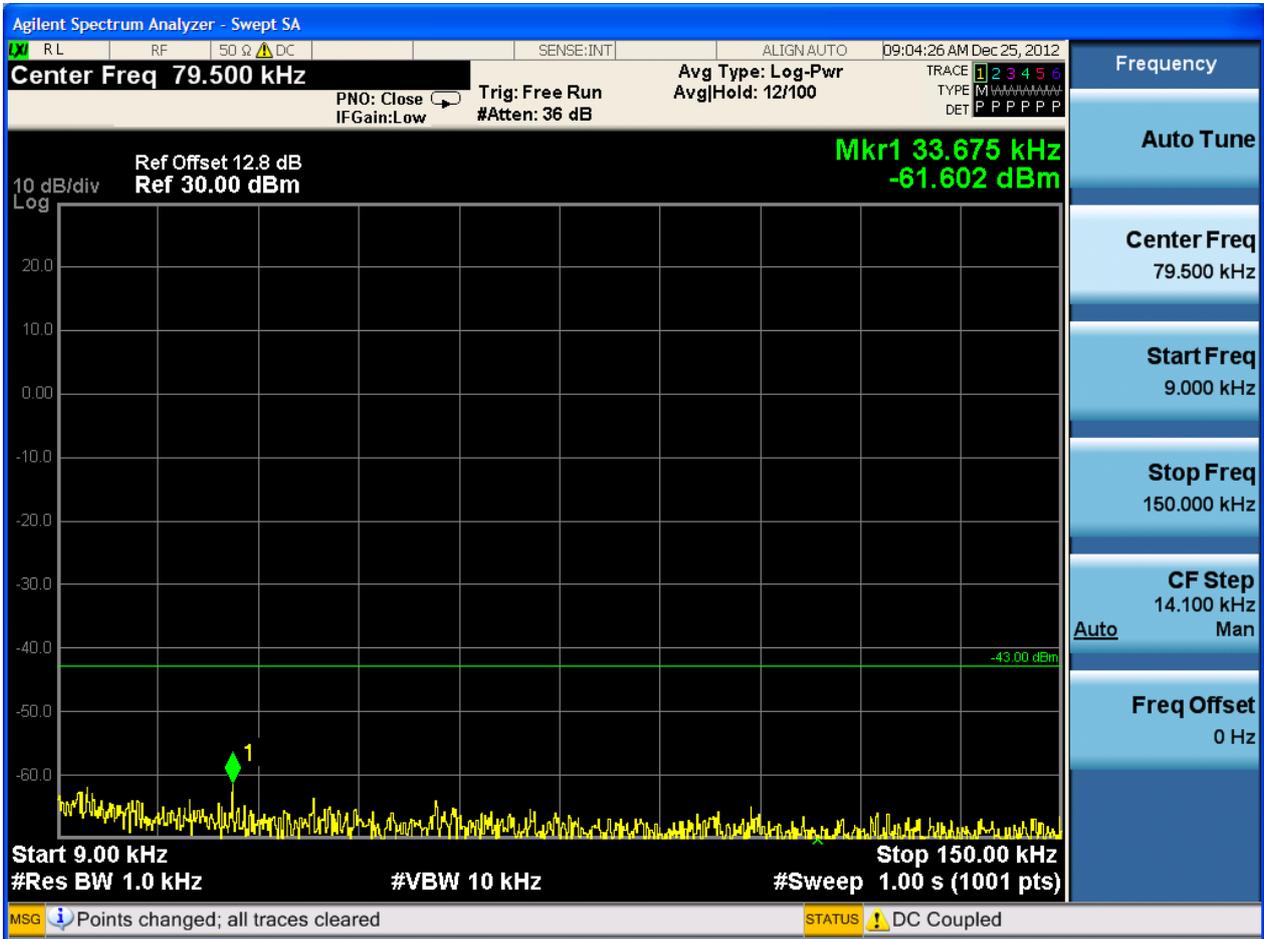


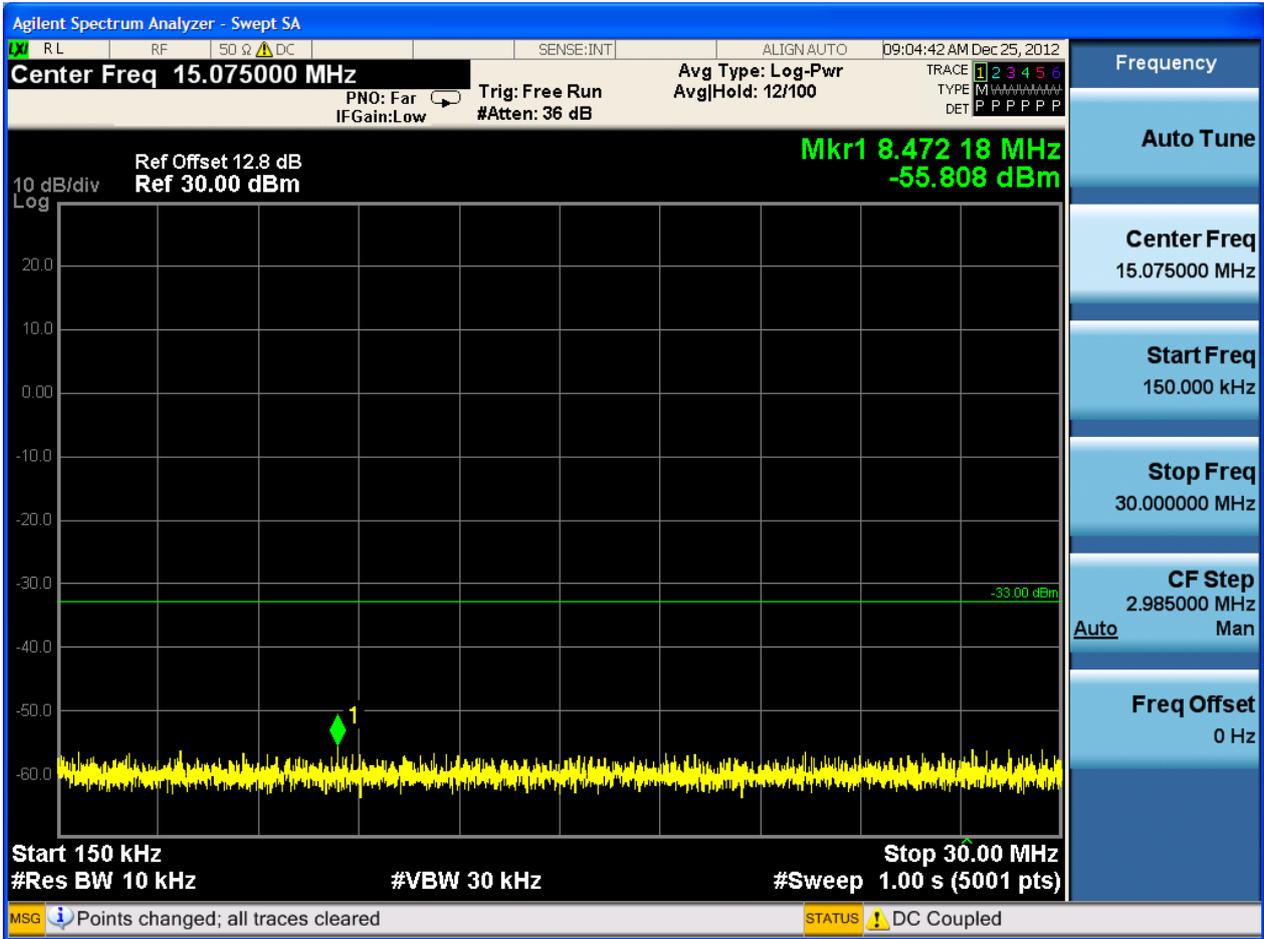


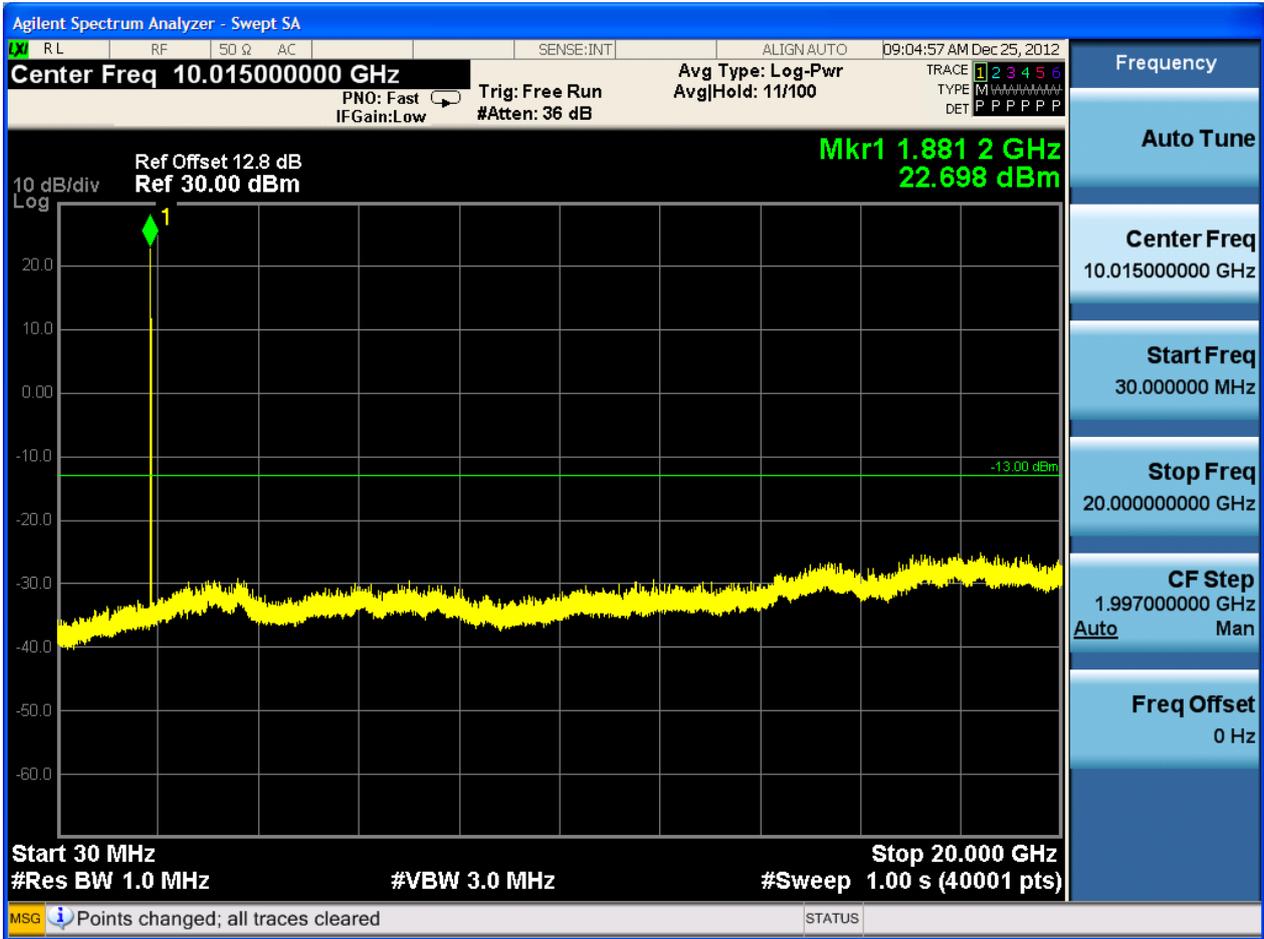




4.2.2.1.2 Test Channel = MCH

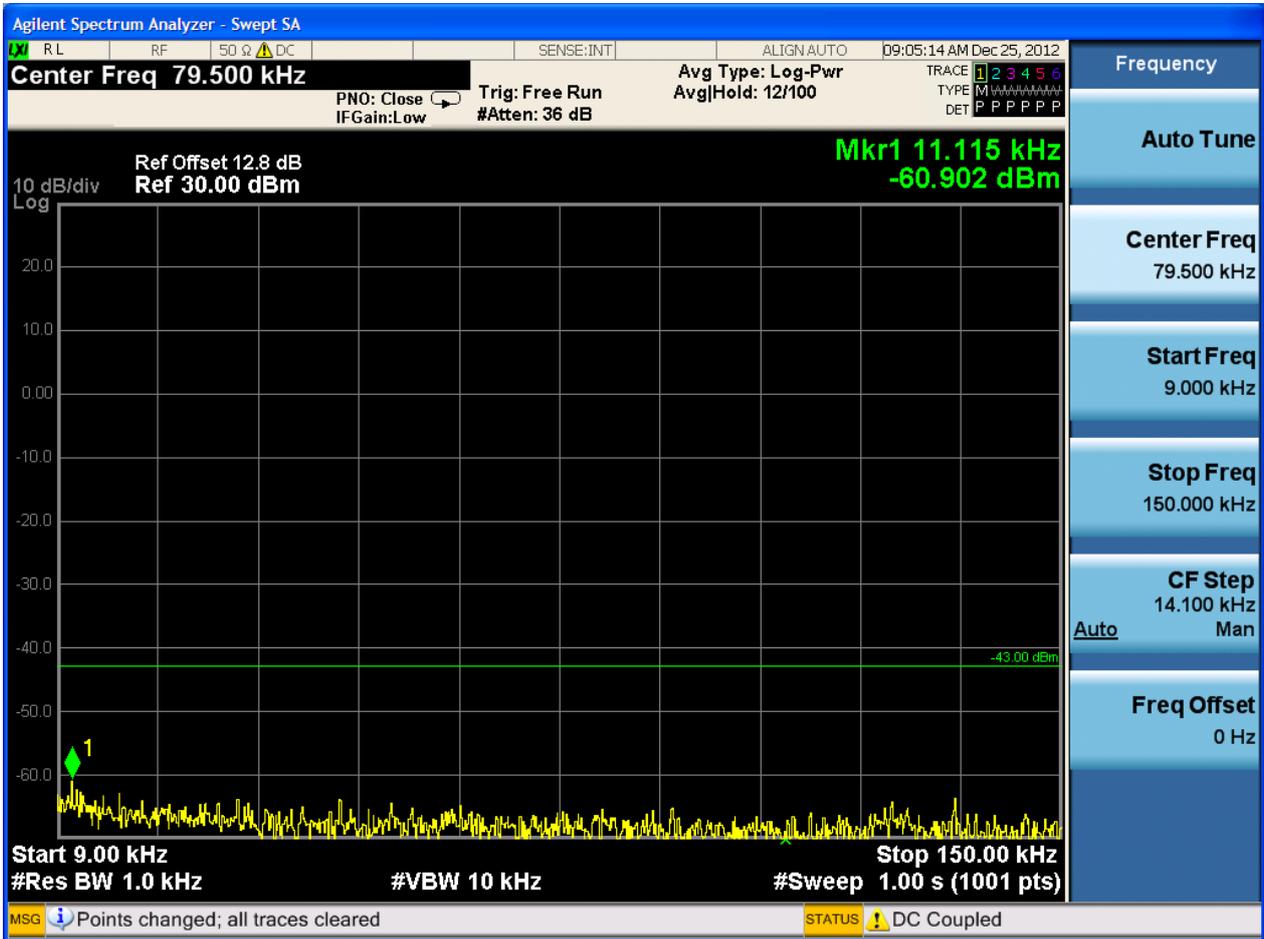


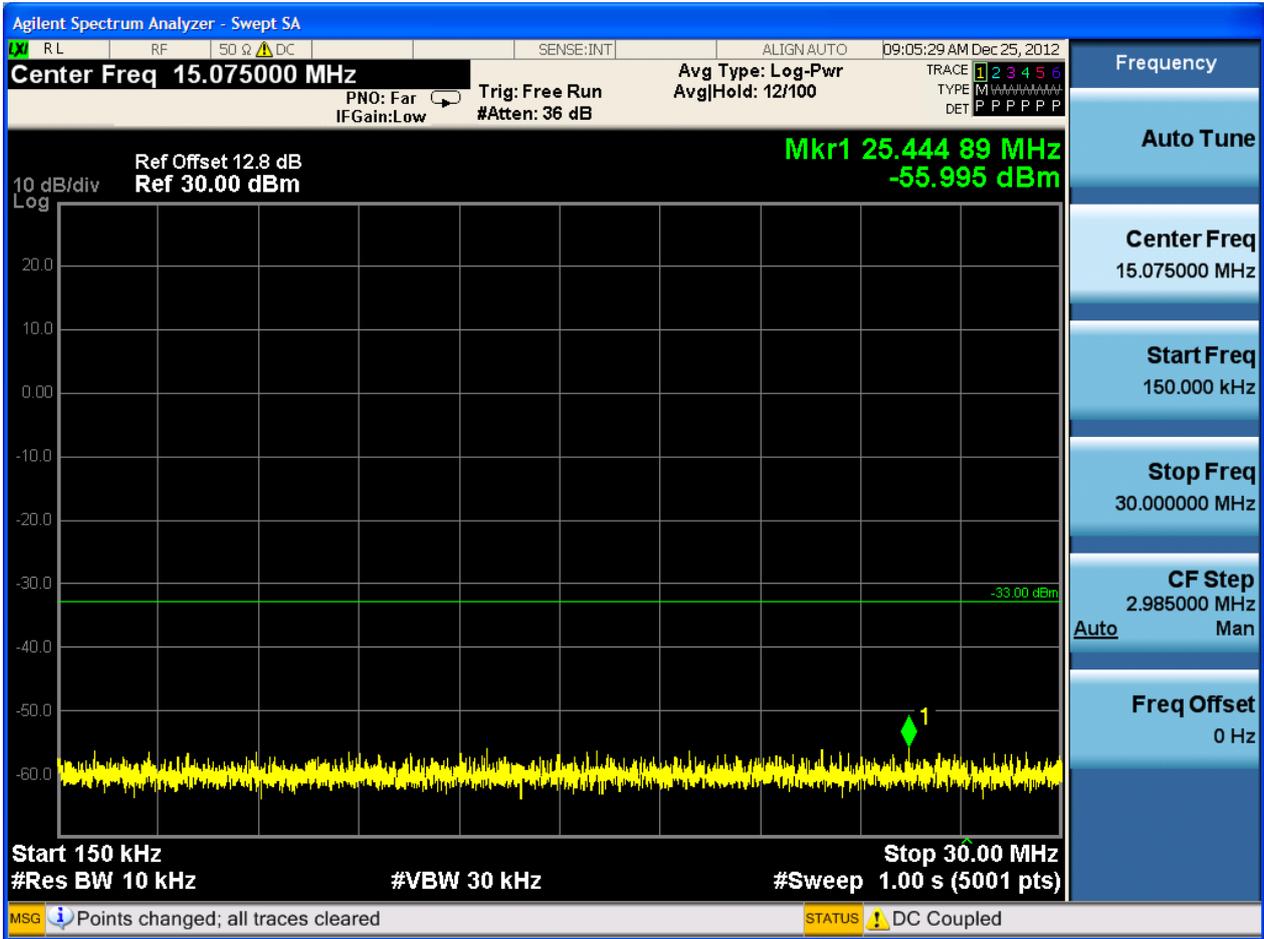


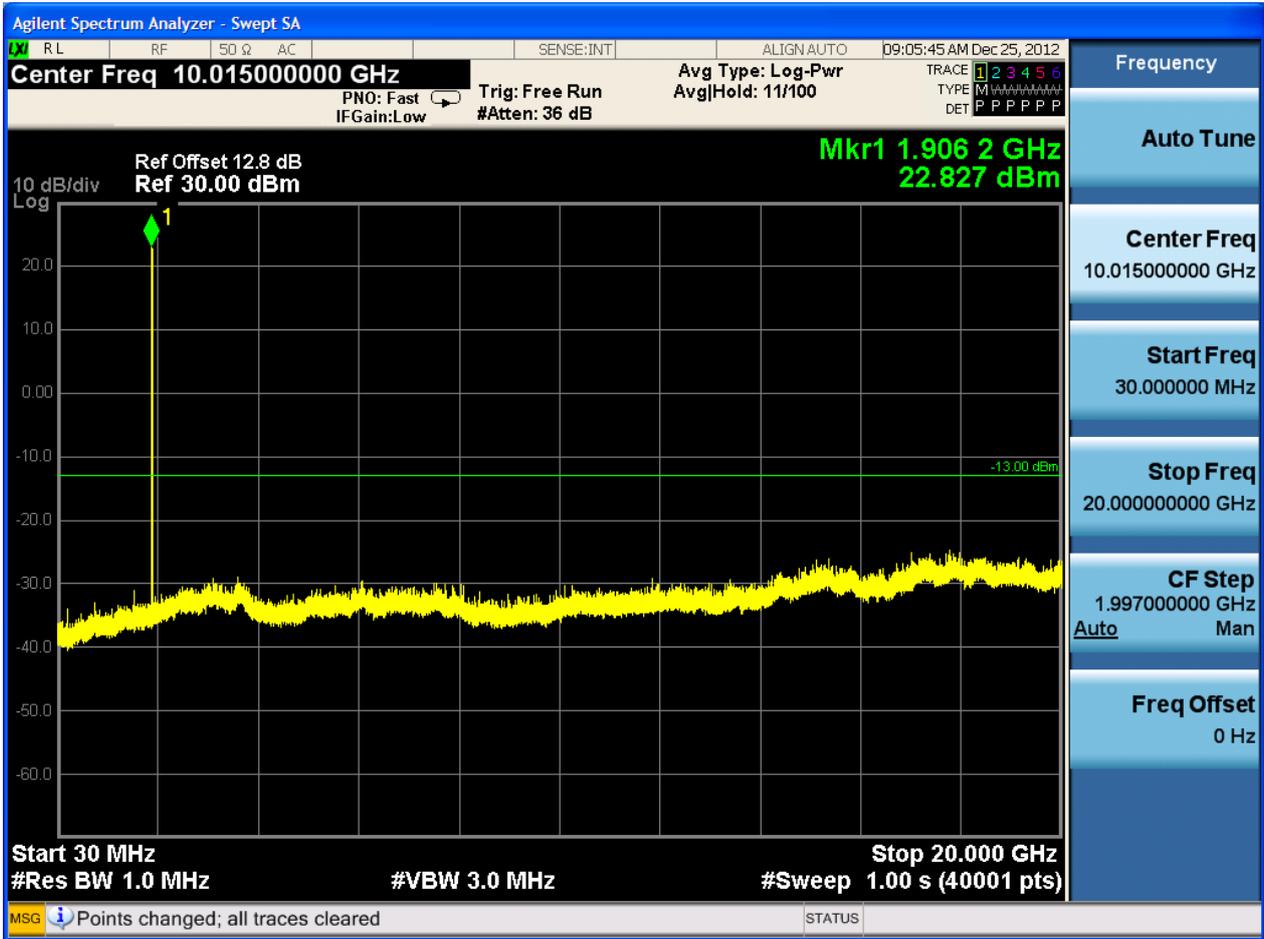




4.2.2.1.3 Test Channel = HCH







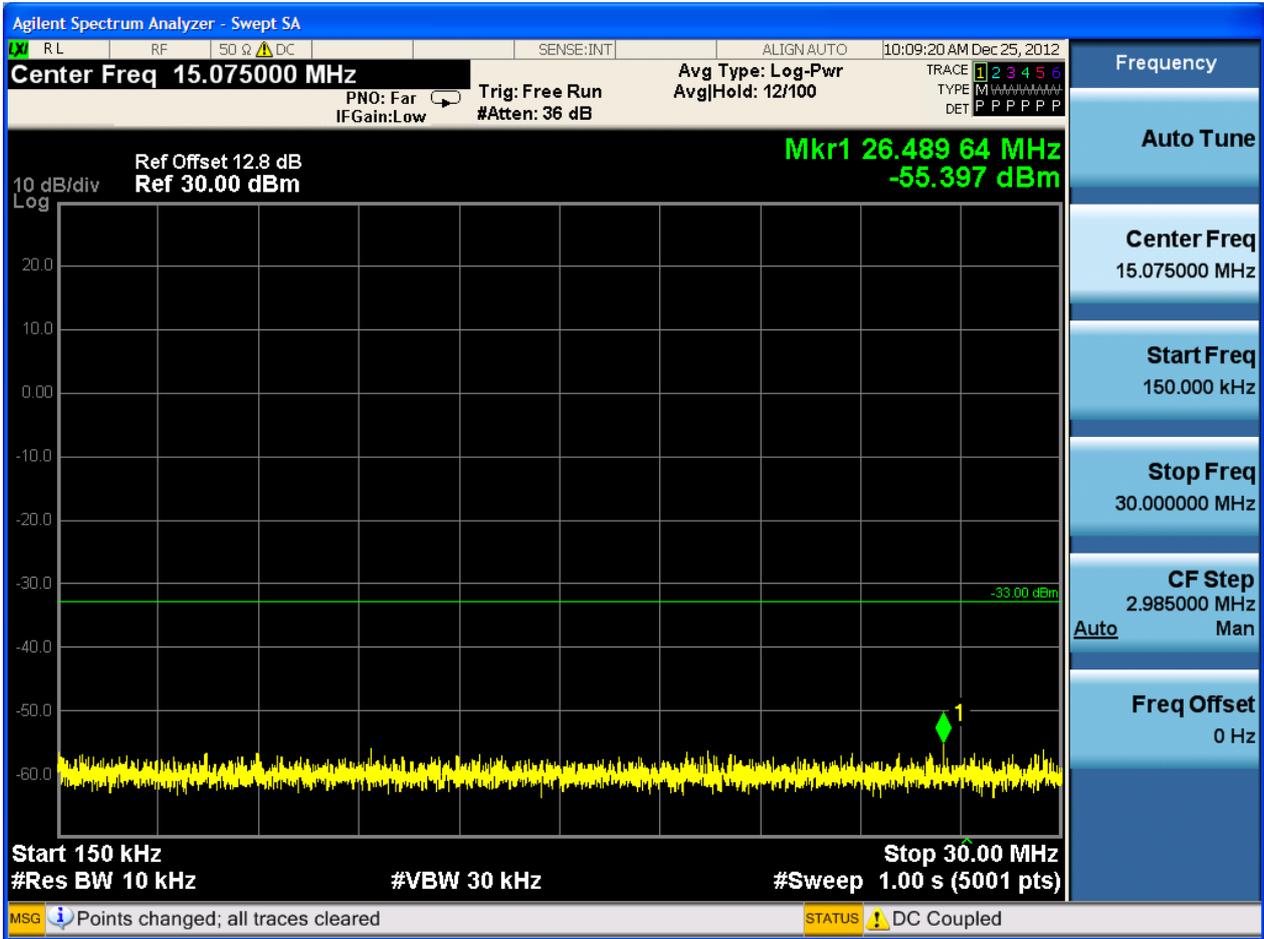


4.2.3 Test Band = WCDMA1700

4.2.3.1 Test Mode = UMTS/TM1

4.2.3.1.1 Test Channel = LCH

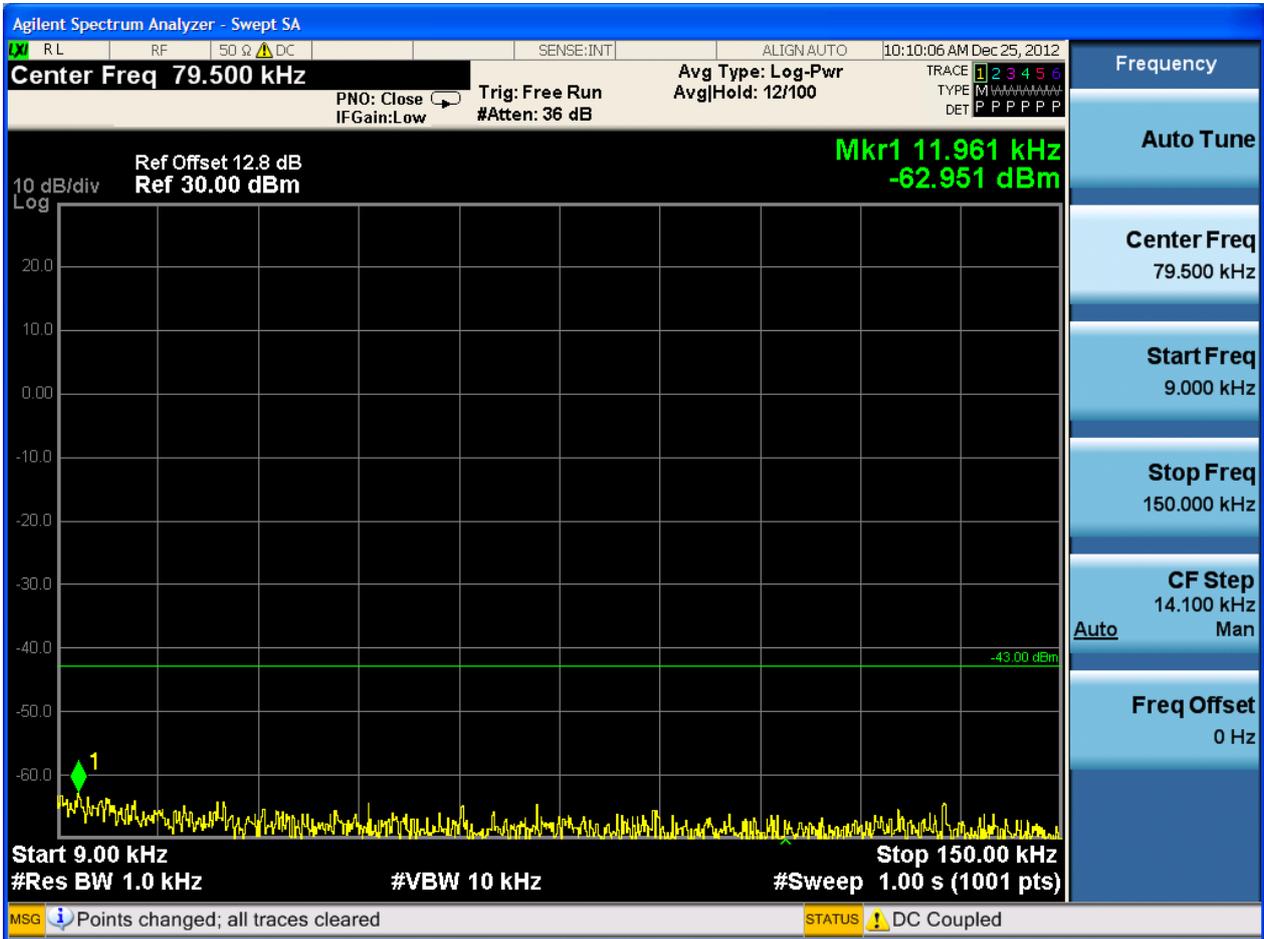


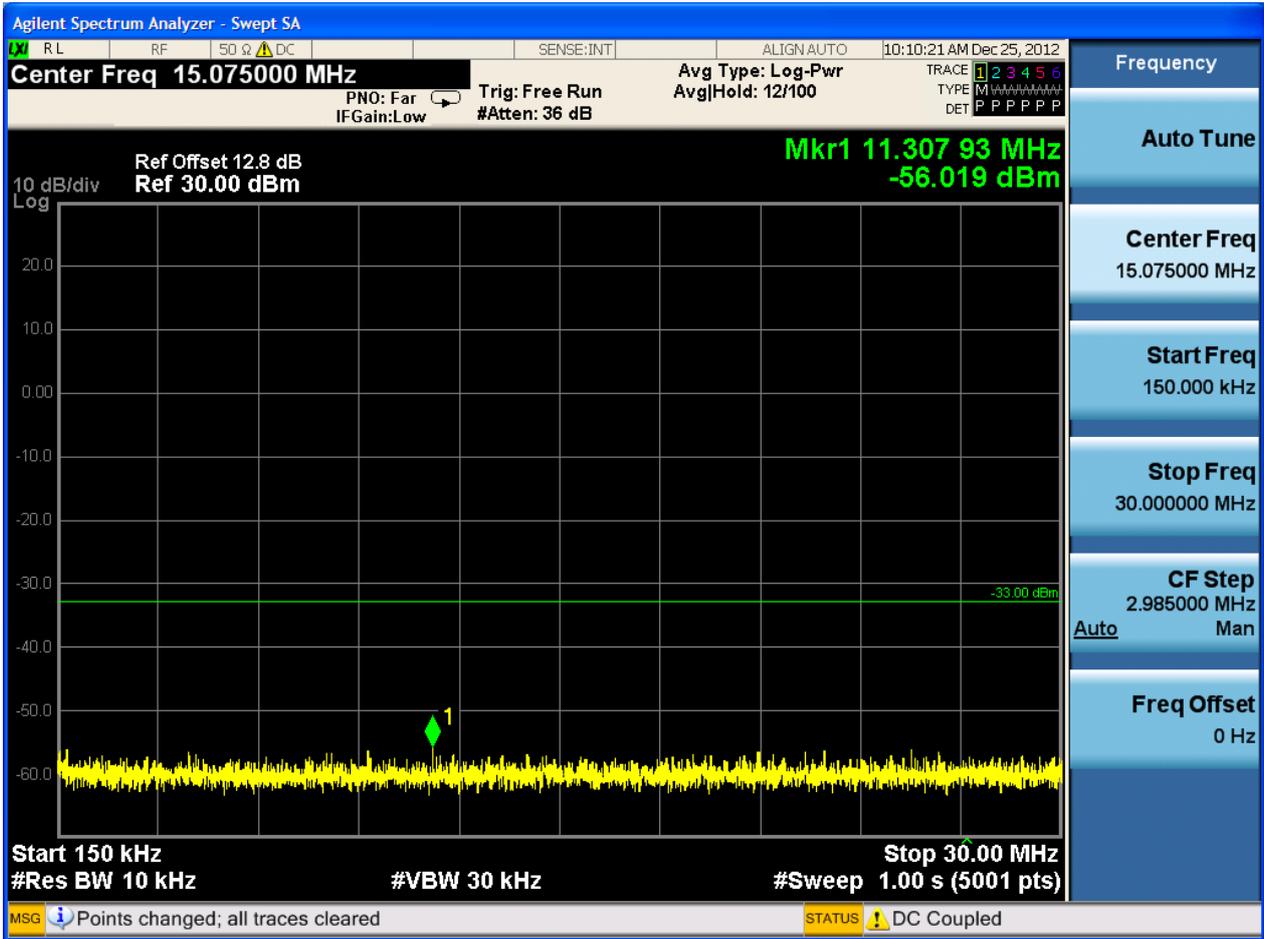






4.2.3.1.2 Test Channel = MCH



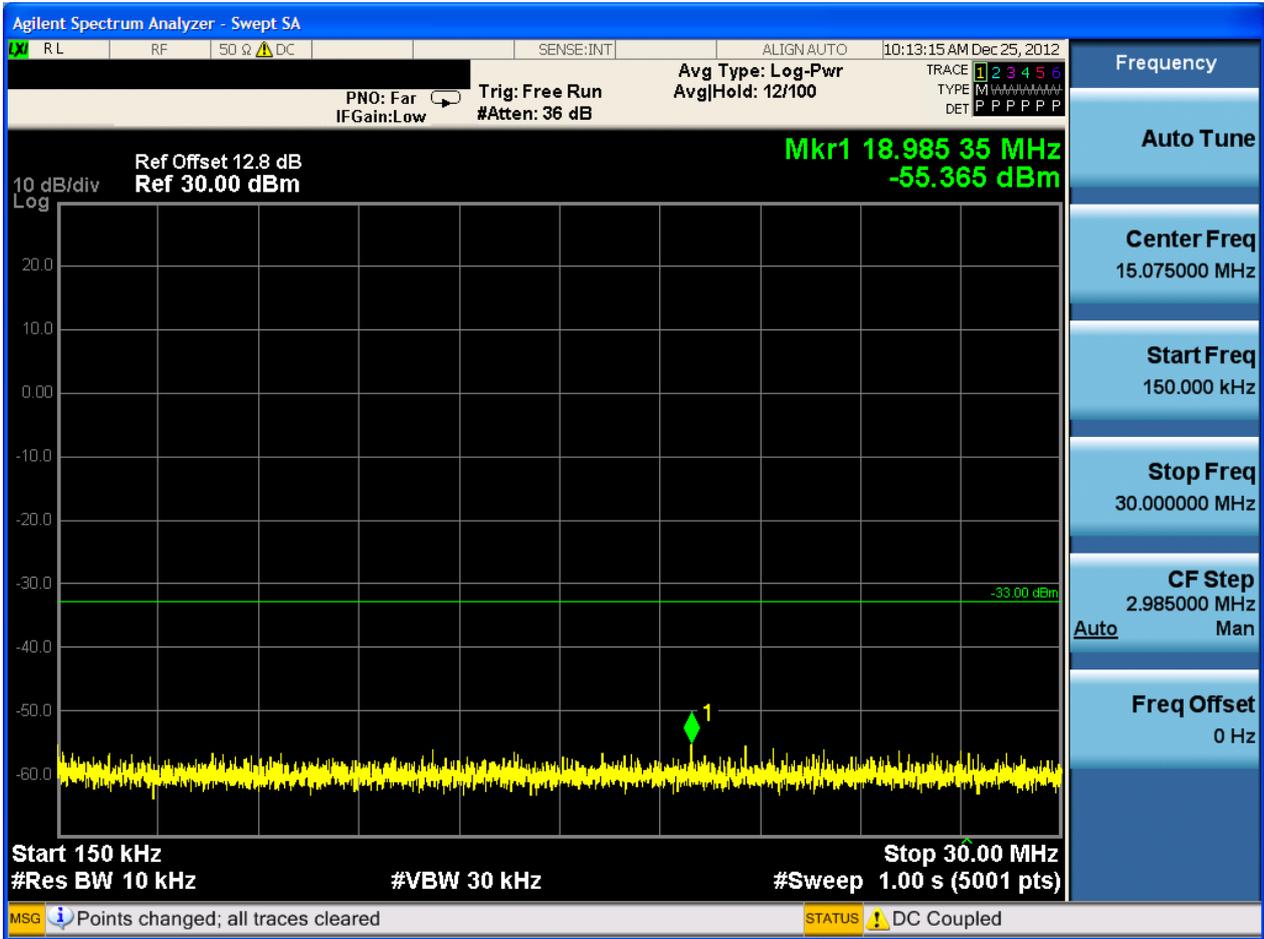


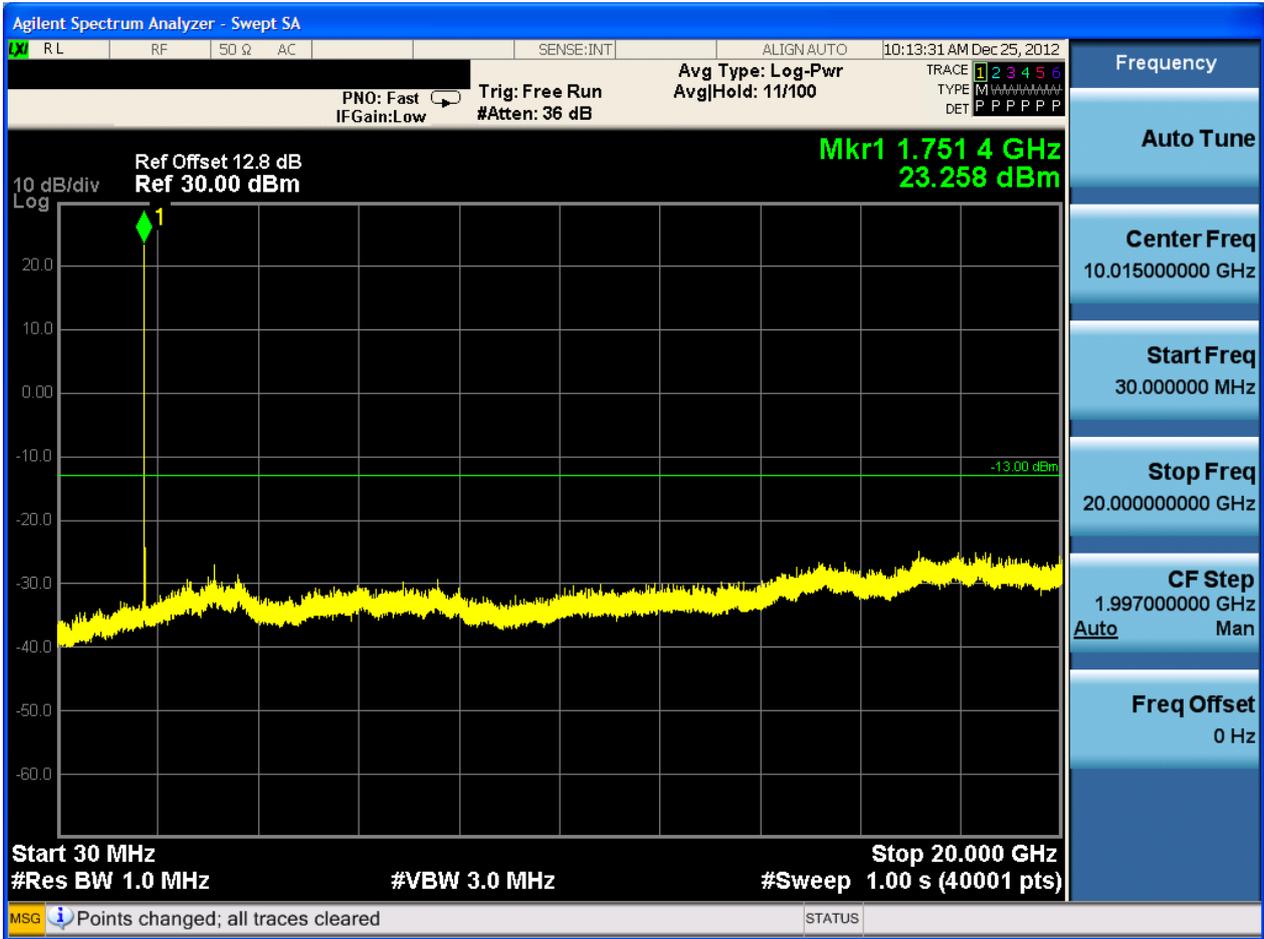




4.2.3.1.3 Test Channel = HCH







5Appendix_E: Frequency Stability

5.1 For GSM

5.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-4.07	-0.00494	±2.5	PASS
				VN	-4.13	-0.00501	±2.5	PASS
				VH	-2.97	-0.0036	±2.5	PASS
		MCH	TN	VL	3.23	0.00386	±2.5	PASS
				VN	0.90	0.00108	±2.5	PASS
				VH	-1.03	-0.00123	±2.5	PASS
		HCH	TN	VL	-4.58	-0.0054	±2.5	PASS
				VN	-3.49	-0.00411	±2.5	PASS
				VH	-2.13	-0.00251	±2.5	PASS
	GSM/TM2	LCH	TN	VL	10.23	0.01241	±2.5	PASS
				VN	8.43	0.01023	±2.5	PASS
				VH	6.84	0.0083	±2.5	PASS
		MCH	TN	VL	9.52	0.01137	±2.5	PASS
				VN	10.07	0.01203	±2.5	PASS
				VH	8.17	0.00976	±2.5	PASS
		HCH	TN	VL	10.23	0.01205	±2.5	PASS
				VN	11.49	0.01354	±2.5	PASS
				VH	11.04	0.01301	±2.5	PASS
GSM1900	GSM/TM1	LCH	TN	VL	-8.52	-0.0046	±2.5	PASS
				VN	-6.97	-0.00377	±2.5	PASS
				VH	-2.26	-0.00122	±2.5	PASS
		MCH	TN	VL	-7.75	-0.00412	±2.5	PASS
				VN	-4.58	-0.00244	±2.5	PASS
				VH	-12.07	-0.00642	±2.5	PASS
		HCH	TN	VL	-12.53	-0.00656	±2.5	PASS
				VN	-6.01	-0.00315	±2.5	PASS
				VH	-3.29	-0.00172	±2.5	PASS
	GSM/TM2	LCH	TN	VL	12.01	0.00649	±2.5	PASS
				VN	8.46	0.00457	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				VH	28.19	0.01524	±2.5	PASS
		MCH	TN	VL	30.83	0.0164	±2.5	PASS
				VN	29.22	0.01554	±2.5	PASS
				VH	17.47	0.00929	±2.5	PASS
		HCH	TN	VL	6.04	0.00316	±2.5	PASS
				VN	-21.92	-0.01148	±2.5	PASS
				VH	-6.36	-0.00333	±2.5	PASS

5.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	0.32	0.00039	±2.5	PASS
				-20	-2.71	-0.00329	±2.5	PASS
				-10	-2.26	-0.00274	±2.5	PASS
				0	-2.32	-0.00281	±2.5	PASS
				10	-1.81	-0.0022	±2.5	PASS
				20	-1.68	-0.00204	±2.5	PASS
				30	-2.26	-0.00274	±2.5	PASS
				40	-0.90	-0.00109	±2.5	PASS
		MCH	VN	-30	-0.39	-0.00047	±2.5	PASS
				-20	0.58	0.00069	±2.5	PASS
				-10	-1.81	-0.00216	±2.5	PASS
				0	1.55	0.00185	±2.5	PASS
				10	-2.20	-0.00263	±2.5	PASS
				20	-1.87	-0.00223	±2.5	PASS
				30	-1.81	-0.00216	±2.5	PASS
				40	-3.23	-0.00386	±2.5	PASS
		HCH	VN	-30	-4.78	-0.00563	±2.5	PASS
				-20	-1.55	-0.00183	±2.5	PASS
				-10	-2.45	-0.00289	±2.5	PASS
				0	1.74	0.00205	±2.5	PASS
				10	-2.71	-0.00319	±2.5	PASS
				20	-1.55	-0.00183	±2.5	PASS
				30	1.36	0.0016	±2.5	PASS
				40	1.94	0.00229	±2.5	PASS
			50	-0.65	-0.00077	±2.5	PASS	

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
	GSM/TM2	LCH	VN	-30	10.40	0.01262	±2.5	PASS
				-20	12.98	0.01575	±2.5	PASS
				-10	12.98	0.01575	±2.5	PASS
				0	13.79	0.01673	±2.5	PASS
				10	11.59	0.01406	±2.5	PASS
				20	12.91	0.01566	±2.5	PASS
				30	11.95	0.0145	±2.5	PASS
				40	11.11	0.01348	±2.5	PASS
				50	13.98	0.01696	±2.5	PASS
		MCH	VN	-30	12.85	0.01535	±2.5	PASS
				-20	14.24	0.01701	±2.5	PASS
				-10	12.88	0.01539	±2.5	PASS
				0	13.69	0.01636	±2.5	PASS
				10	14.21	0.01698	±2.5	PASS
				20	13.46	0.01608	±2.5	PASS
				30	13.27	0.01585	±2.5	PASS
				40	12.91	0.01542	±2.5	PASS
				50	13.50	0.01613	±2.5	PASS
		HCH	VN	-30	15.24	0.01795	±2.5	PASS
				-20	15.01	0.01768	±2.5	PASS
				-10	12.17	0.01434	±2.5	PASS
				0	16.18	0.01906	±2.5	PASS
				10	14.37	0.01693	±2.5	PASS
				20	14.43	0.017	±2.5	PASS
				30	14.88	0.01753	±2.5	PASS
				40	15.14	0.01784	±2.5	PASS
				50	15.50	0.01826	±2.5	PASS

5.2 For UMTS

5.2.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	2.91	0.00352	±2.5	PASS
				VN	-1.40	-0.00169	±2.5	PASS
				VH	1.07	0.00129	±2.5	PASS
		MCH	TN	VL	-3.01	-0.0036	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
		HCH	TN	VN	2.82	0.00337	±2.5	PASS
				VH	1.54	0.00184	±2.5	PASS
				VL	-0.85	-0.001	±2.5	PASS
				VN	0.09	0.00011	±2.5	PASS
				VH	-1.16	-0.00137	±2.5	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-2.61	-0.00141	±2.5	PASS
				VN	-2.04	-0.0011	±2.5	PASS
				VH	0.08	0.00004	±2.5	PASS
		MCH	TN	VL	-5.94	-0.00316	±2.5	PASS
				VN	-3.04	-0.00162	±2.5	PASS
				VH	-4.49	-0.00239	±2.5	PASS
		HCH	TN	VL	-7.72	-0.00405	±2.5	PASS
				VN	-7.68	-0.00403	±2.5	PASS
				VH	-6.85	-0.00359	±2.5	PASS
WCDMA1700	UMTS/TM1	LCH	TN	VL	6.27	0.00366	±2.5	PASS
				VN	6.30	0.00368	±2.5	PASS
				VH	8.29	0.00484	±2.5	PASS
		MCH	TN	VL	-4.46	-0.00257	±2.5	PASS
				VN	-4.33	-0.0025	±2.5	PASS
				VH	-3.10	-0.00179	±2.5	PASS
		HCH	TN	VL	-15.20	-0.00867	±2.5	PASS
				VN	-14.37	-0.0082	±2.5	PASS
				VH	-8.64	-0.00493	±2.5	PASS

5.2.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	VN	-30	0.53	0.00064	±2.5	PASS
				-20	0.61	0.00074	±2.5	PASS
				-10	1.36	0.00165	±2.5	PASS
				0	1.27	0.00154	±2.5	PASS
				10	-0.76	-0.00092	±2.5	PASS
				20	1.97	0.00238	±2.5	PASS
				30	0.12	0.00015	±2.5	PASS
				40	1.19	0.00144	±2.5	PASS
				50	3.72	0.0045	±2.5	PASS
		MCH	VN	-30	0.29	0.00035	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict		
				-20	-0.49	-0.00059	±2.5	PASS		
				-10	0.43	0.00051	±2.5	PASS		
				0	-3.34	-0.00399	±2.5	PASS		
				10	-1.62	-0.00194	±2.5	PASS		
				20	1.60	0.00191	±2.5	PASS		
				30	-0.08	-0.0001	±2.5	PASS		
				40	-3.08	-0.00368	±2.5	PASS		
				50	1.57	0.00188	±2.5	PASS		
		HCH	VN	-30	-1.36	-0.00161	±2.5	PASS		
				-20	-1.92	-0.00227	±2.5	PASS		
				-10	-2.33	-0.00275	±2.5	PASS		
				0	-0.64	-0.00076	±2.5	PASS		
				10	-2.78	-0.00328	±2.5	PASS		
				20	-5.04	-0.00595	±2.5	PASS		
				30	-0.95	-0.00112	±2.5	PASS		
				40	-3.69	-0.00436	±2.5	PASS		
		GSM1900	GSM/TM1	LCH	VN	-30	0.13	0.00007	±2.5	PASS
						-20	0.45	0.00024	±2.5	PASS
-10	-4.33					-0.00234	±2.5	PASS		
0	-4.84					-0.00262	±2.5	PASS		
10	-6.33					-0.00342	±2.5	PASS		
20	0.06					0.00003	±2.5	PASS		
30	6.39					0.00345	±2.5	PASS		
40	2.58					0.00139	±2.5	PASS		
50	-8.27			-0.00447	±2.5	PASS				
MCH	VN			-30	-8.52	-0.00453	±2.5	PASS		
				-20	-6.78	-0.00361	±2.5	PASS		
				-10	-0.90	-0.00048	±2.5	PASS		
				0	-0.84	-0.00045	±2.5	PASS		
				10	-15.17	-0.00807	±2.5	PASS		
				20	-26.93	-0.01432	±2.5	PASS		
				30	-17.37	-0.00924	±2.5	PASS		
				40	-15.11	-0.00804	±2.5	PASS		
50	-13.56			-0.00721	±2.5	PASS				
HCH	VN	-30	-4.00	-0.00209	±2.5	PASS				
		-20	-1.29	-0.00068	±2.5	PASS				
		-10	2.45	0.00128	±2.5	PASS				



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict	
				0	2.26	0.00118	±2.5	PASS	
				10	2.97	0.00156	±2.5	PASS	
				20	-0.06	-0.00003	±2.5	PASS	
				30	1.68	0.00088	±2.5	PASS	
				40	5.10	0.00267	±2.5	PASS	
				50	9.36	0.0049	±2.5	PASS	
		GSM/TM2	LCH	VN	-30	18.37	0.00993	±2.5	PASS
					-20	19.92	0.01077	±2.5	PASS
					-10	33.32	0.01801	±2.5	PASS
					0	26.28	0.0142	±2.5	PASS
					10	4.78	0.00258	±2.5	PASS
					20	22.12	0.01196	±2.5	PASS
					30	22.41	0.01211	±2.5	PASS
					40	20.50	0.01108	±2.5	PASS
			50	20.86	0.01127	±2.5	PASS		
			MCH	VN	-30	18.50	0.00984	±2.5	PASS
					-20	20.60	0.01096	±2.5	PASS
					-10	27.96	0.01487	±2.5	PASS
					0	23.60	0.01255	±2.5	PASS
					10	15.76	0.00838	±2.5	PASS
					20	20.79	0.01106	±2.5	PASS
					30	24.02	0.01278	±2.5	PASS
					40	5.88	0.00313	±2.5	PASS
			50	26.67	0.01419	±2.5	PASS		
			HCH	VN	-30	20.02	0.01048	±2.5	PASS
					-20	9.40	0.00492	±2.5	PASS
					-10	21.92	0.01148	±2.5	PASS
					0	2.94	0.00154	±2.5	PASS
10					25.70	0.01346	±2.5	PASS	
20					27.93	0.01462	±2.5	PASS	
30		29.77			0.01559	±2.5	PASS		
40		19.24			0.01007	±2.5	PASS		
50		16.98	0.00889	±2.5	PASS				
WCDMA1900		UMTS/TM1	LCH	VN	-30	-0.99	-0.00053	±2.5	PASS
	-20				-3.94	-0.00213	±2.5	PASS	
	-10				-1.07	-0.00058	±2.5	PASS	
	0				-4.76	-0.00257	±2.5	PASS	
	10				-3.33	-0.0018	±2.5	PASS	



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				20	-5.86	-0.00316	±2.5	PASS
				30	-4.75	-0.00256	±2.5	PASS
				40	-3.80	-0.00205	±2.5	PASS
				50	-2.50	-0.00135	±2.5	PASS
		MCH	VN	-30	-7.25	-0.00386	±2.5	PASS
				-20	-5.91	-0.00314	±2.5	PASS
				-10	-6.00	-0.00319	±2.5	PASS
				0	-7.77	-0.00413	±2.5	PASS
				10	-6.88	-0.00366	±2.5	PASS
				20	-5.54	-0.00295	±2.5	PASS
				30	-6.12	-0.00326	±2.5	PASS
				40	-6.18	-0.00329	±2.5	PASS
		HCH	VN	50	-4.62	-0.00246	±2.5	PASS
				-30	-10.79	-0.00566	±2.5	PASS
				-20	-9.77	-0.00512	±2.5	PASS
				-10	-11.08	-0.00581	±2.5	PASS
				0	-12.56	-0.00658	±2.5	PASS
				10	-6.82	-0.00358	±2.5	PASS
				20	-12.51	-0.00656	±2.5	PASS
				30	-12.27	-0.00643	±2.5	PASS
WCDMA1700	UMTS/TM1	LCH	VN	40	-8.42	-0.00441	±2.5	PASS
				50	-7.93	-0.00416	±2.5	PASS
				-30	7.25	0.00423	±2.5	PASS
				-20	6.67	0.0039	±2.5	PASS
				-10	4.39	0.00256	±2.5	PASS
				0	5.71	0.00333	±2.5	PASS
				10	6.79	0.00397	±2.5	PASS
				20	6.68	0.0039	±2.5	PASS
		MCH	VN	30	6.26	0.00366	±2.5	PASS
				40	5.91	0.00345	±2.5	PASS
				50	5.25	0.00307	±2.5	PASS
				-30	-4.46	-0.00257	±2.5	PASS
				-20	-2.44	-0.00141	±2.5	PASS
				-10	-2.85	-0.00165	±2.5	PASS
				0	-3.07	-0.00177	±2.5	PASS
				10	-6.04	-0.00349	±2.5	PASS
				20	-5.55	-0.0032	±2.5	PASS
				30	-3.07	-0.00177	±2.5	PASS



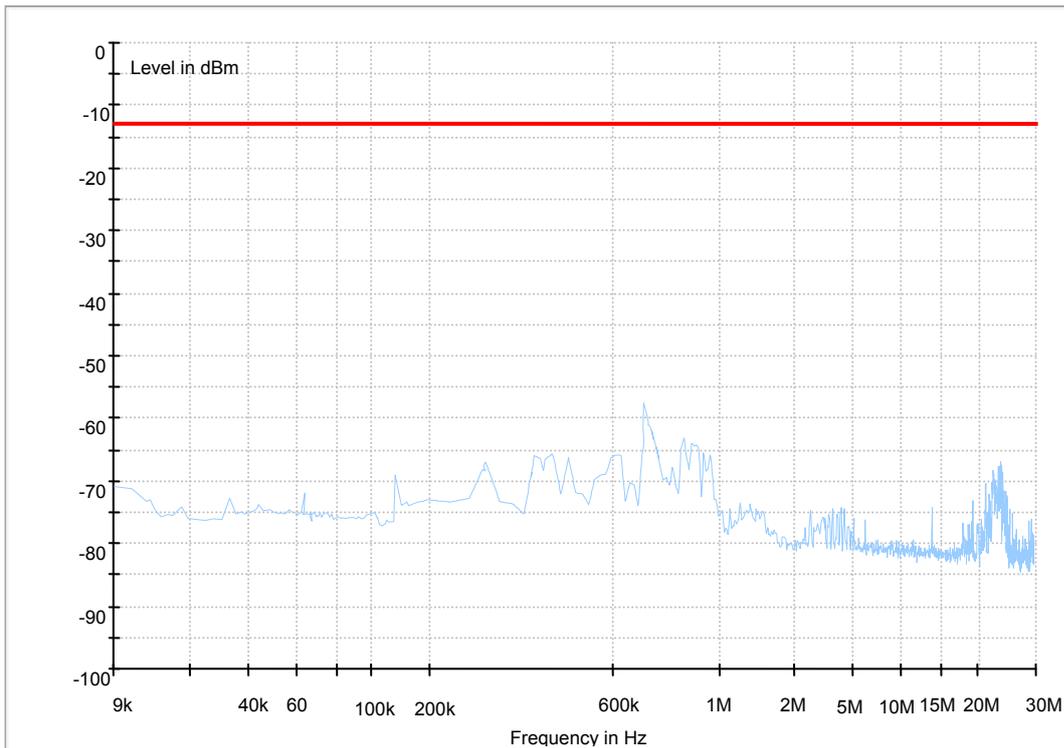
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Limit [ppm]	Verdict
				40	-4.97	-0.00287	±2.5	PASS
				50	-0.58	-0.00033	±2.5	PASS
		HCH	VN	-30	-11.23	-0.00641	±2.5	PASS
				-20	-10.94	-0.00624	±2.5	PASS
				-10	-11.89	-0.00678	±2.5	PASS
				0	-11.89	-0.00678	±2.5	PASS
				10	-9.83	-0.00561	±2.5	PASS
				20	-9.23	-0.00527	±2.5	PASS
				30	-10.06	-0.00574	±2.5	PASS
				40	-14.05	-0.00802	±2.5	PASS
				50	-12.63	-0.00721	±2.5	PASS

6 Appendix F: Field Strength of Spurious Radiation

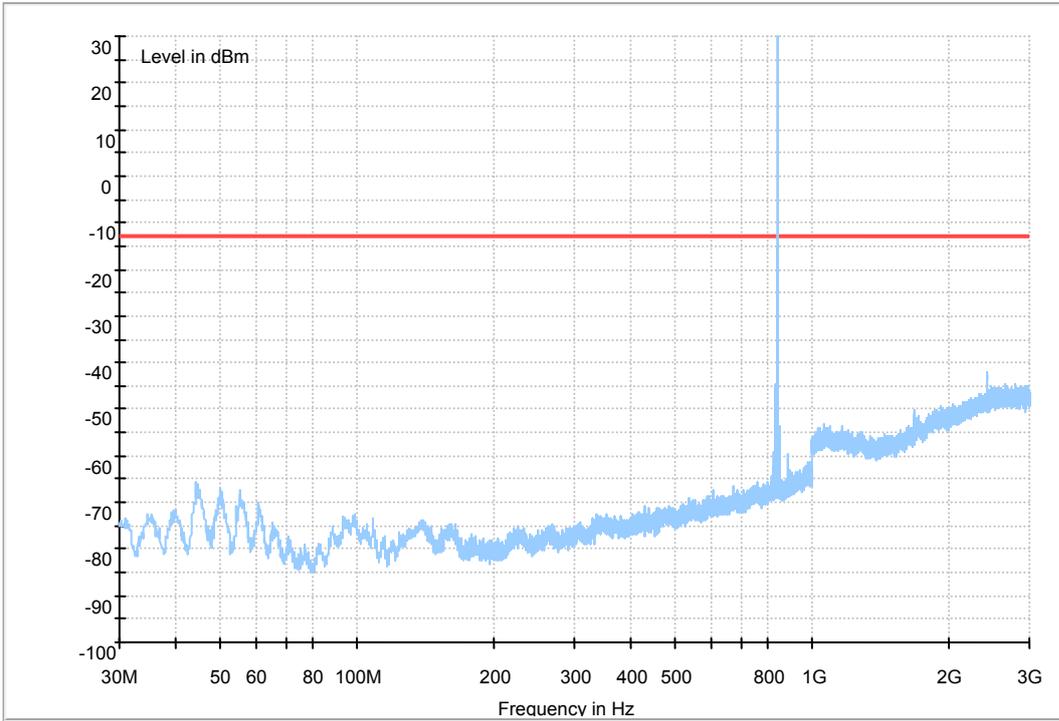
6.1 For GSM850 & WCDMA850

GSM850

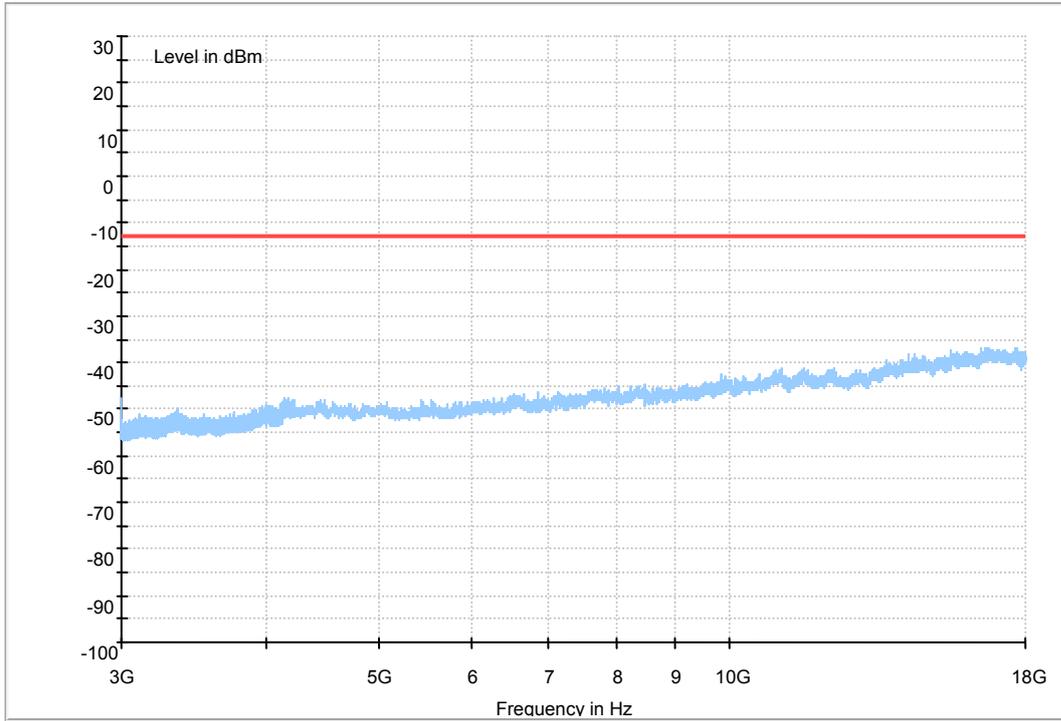
(9kHz~30MHz)



(30MHz~3GHz)

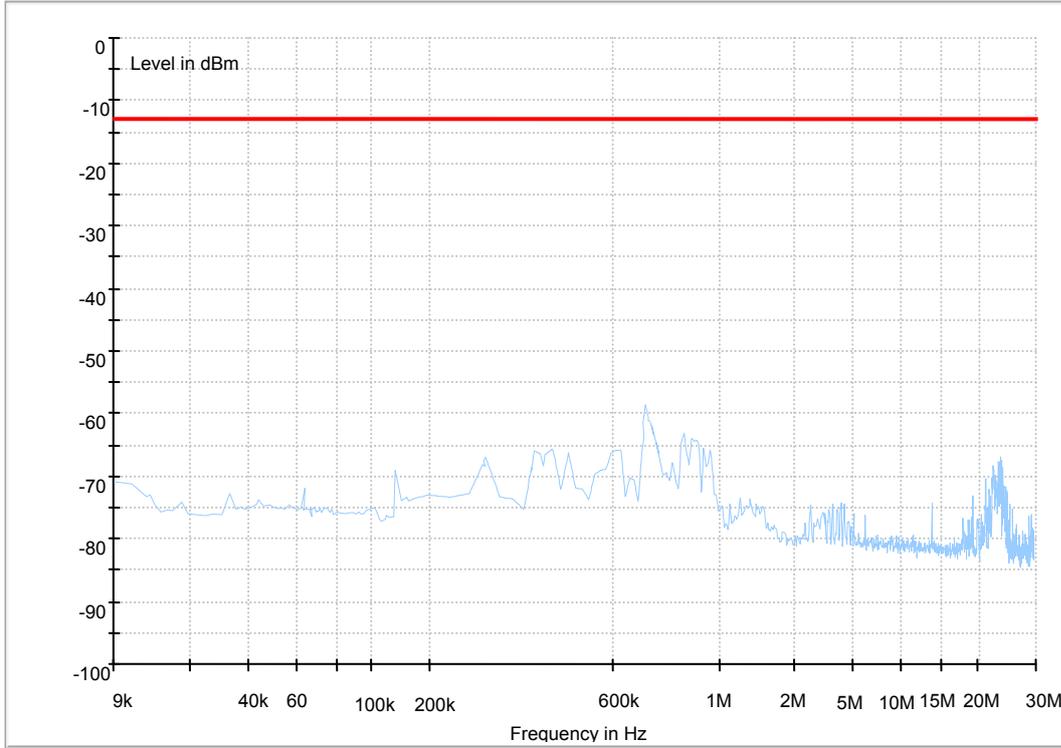


(3GHz~18GHz)

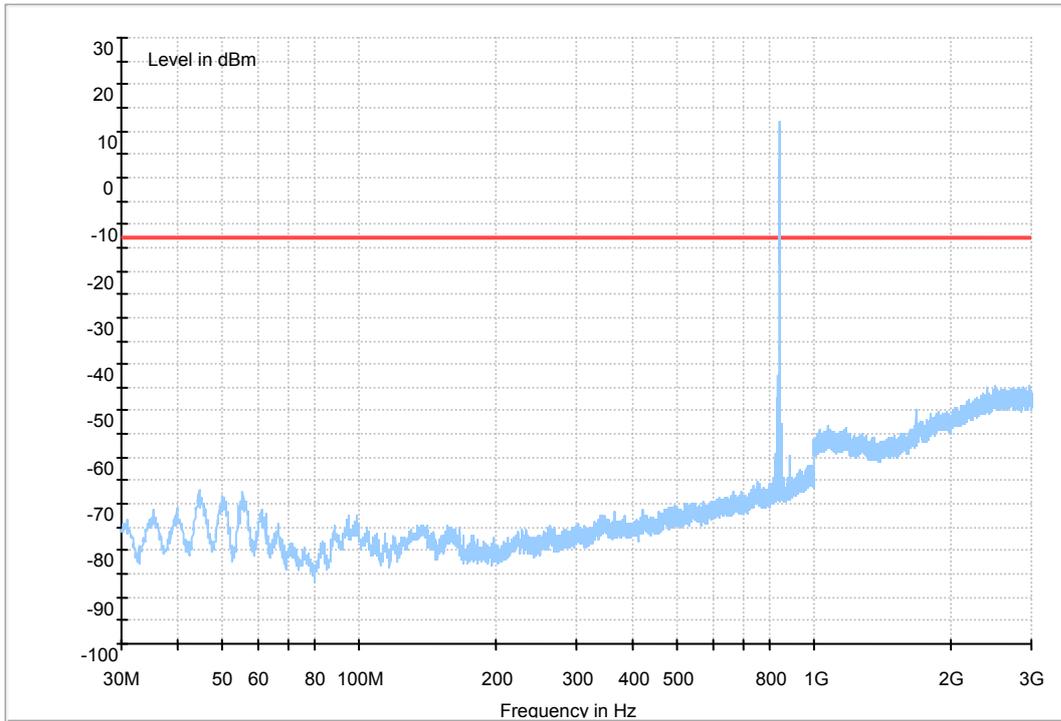


GPRS 850

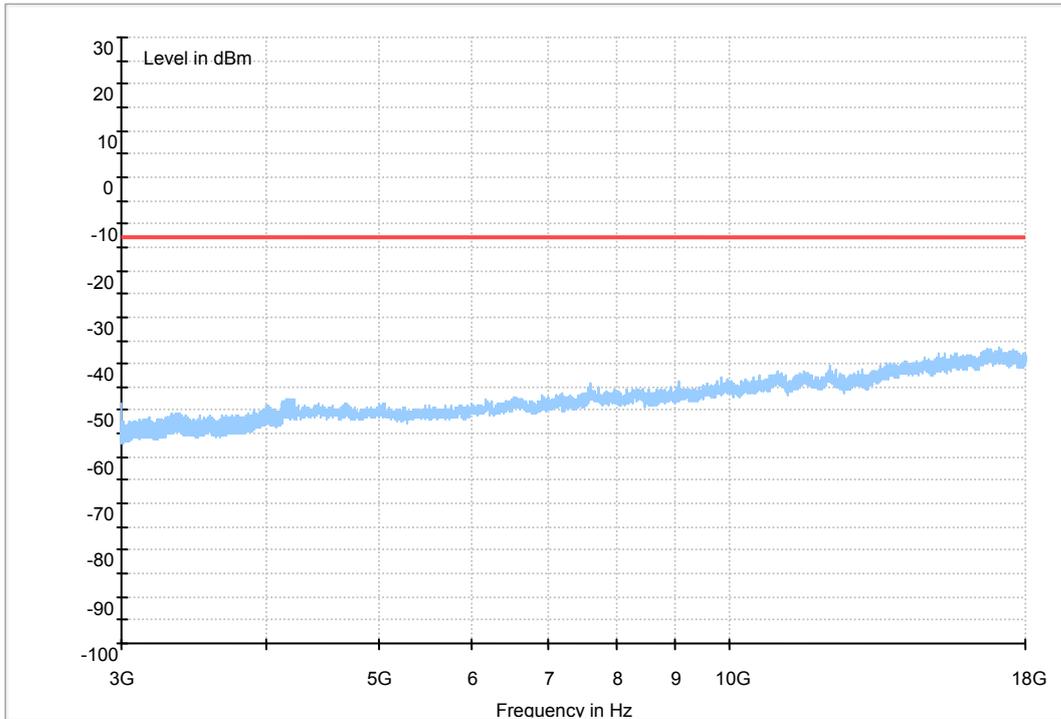
(9kHz~30MHz)



(30MHz~3GHz)

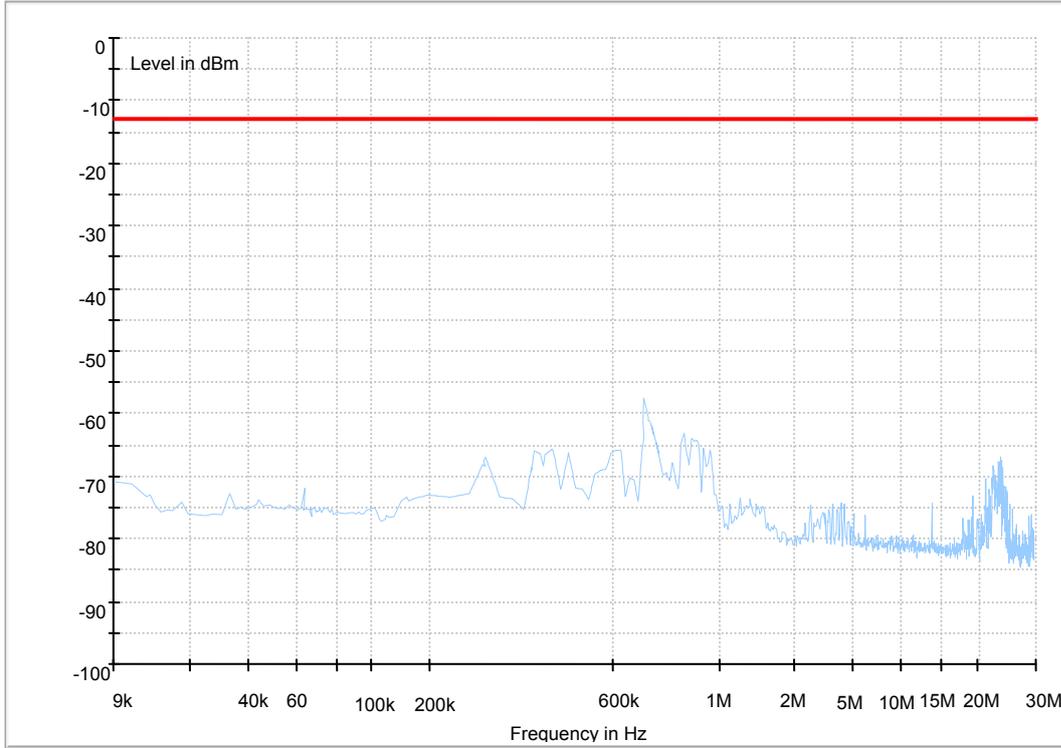


(3GHz~18GHz)

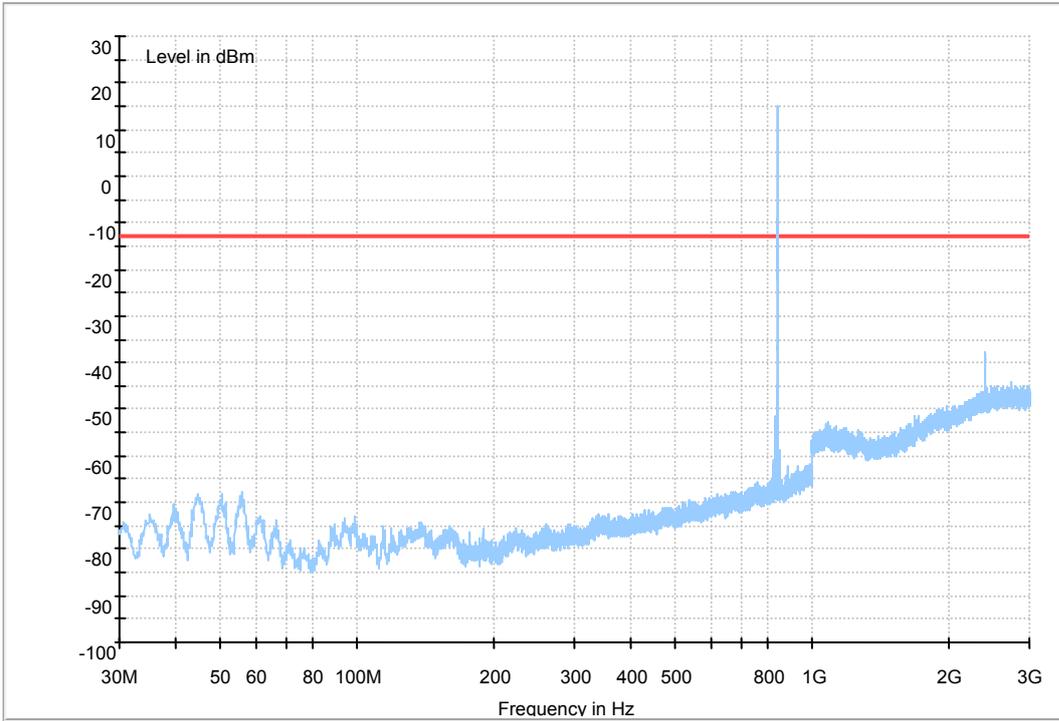


EDGE 850

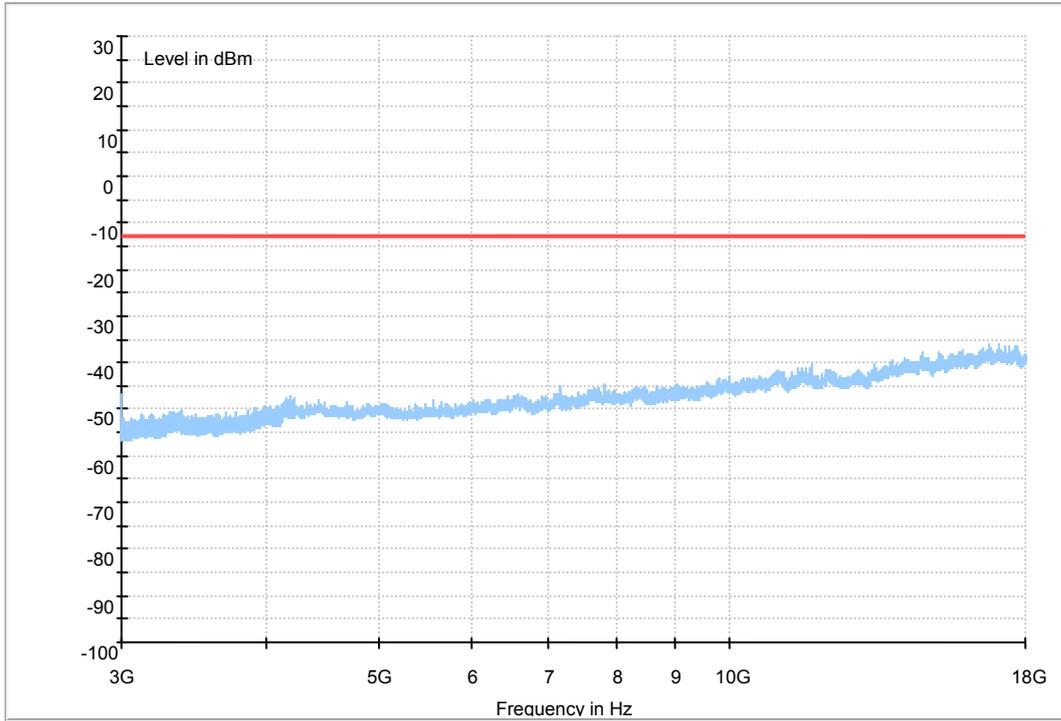
(9kHz~30MHz)



(30MHz~3GHz)

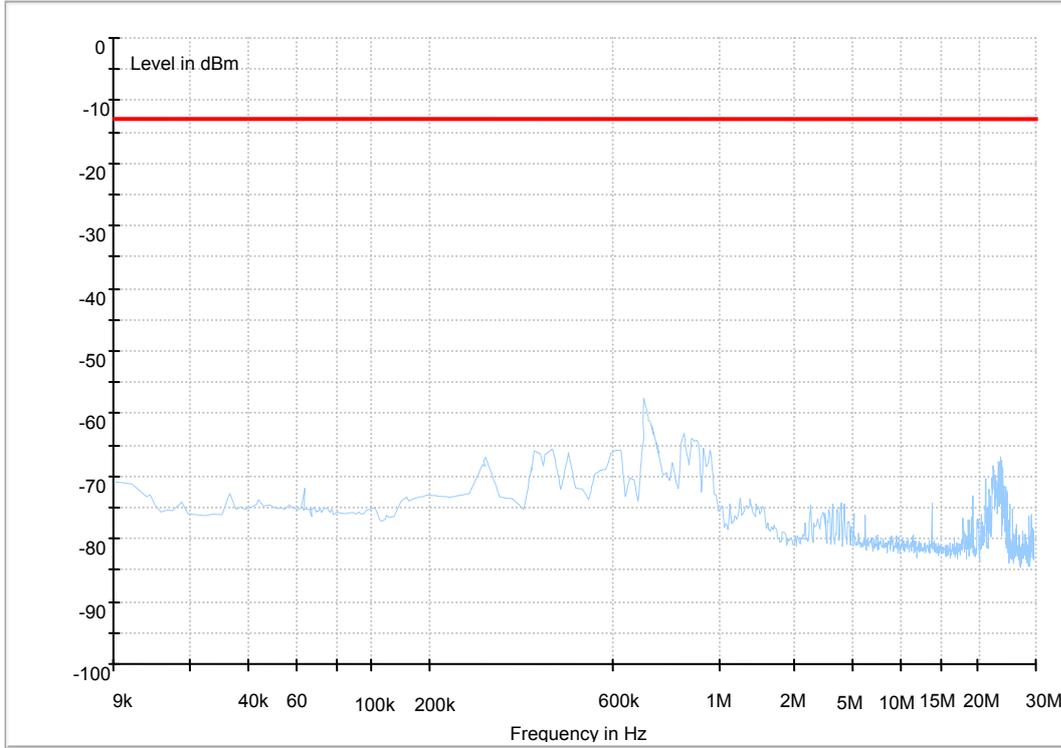


(3GHz~18GHz)

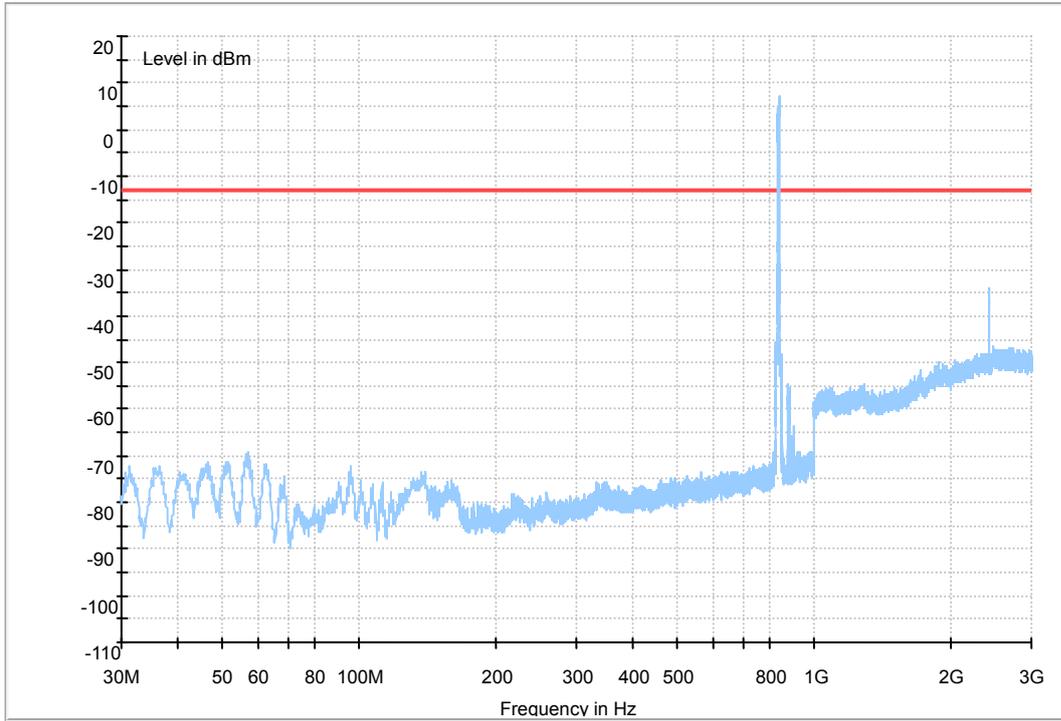


WCDMA 850

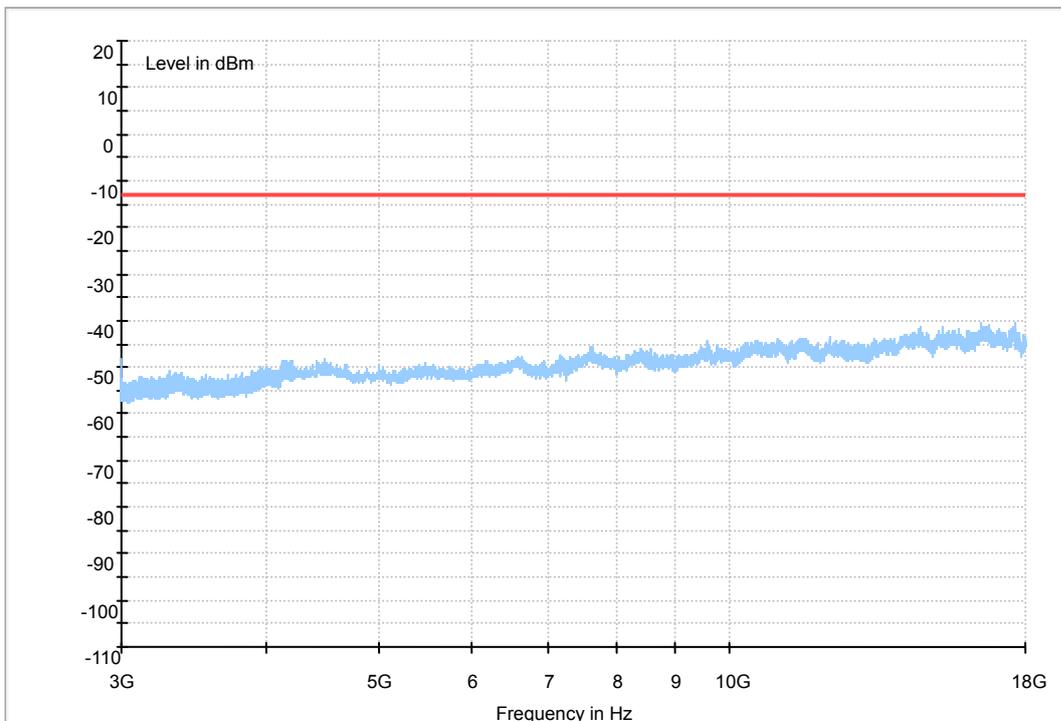
(9kHz~30MHz)



(30MHz~3GHz)

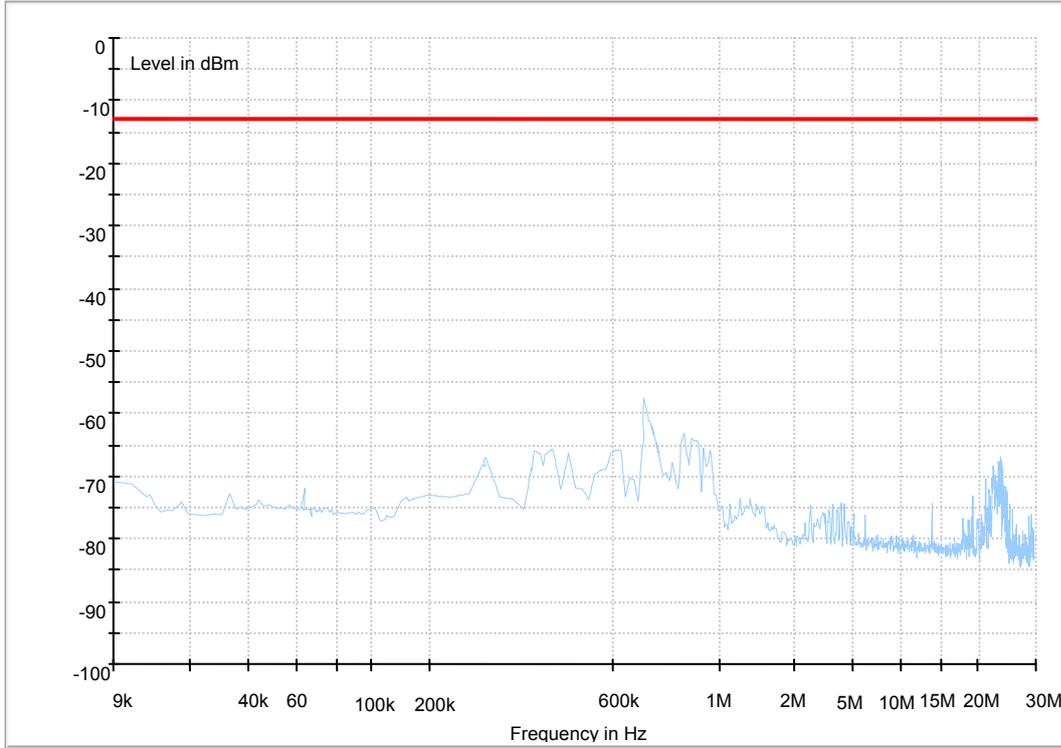


(3GHz~18GHz)

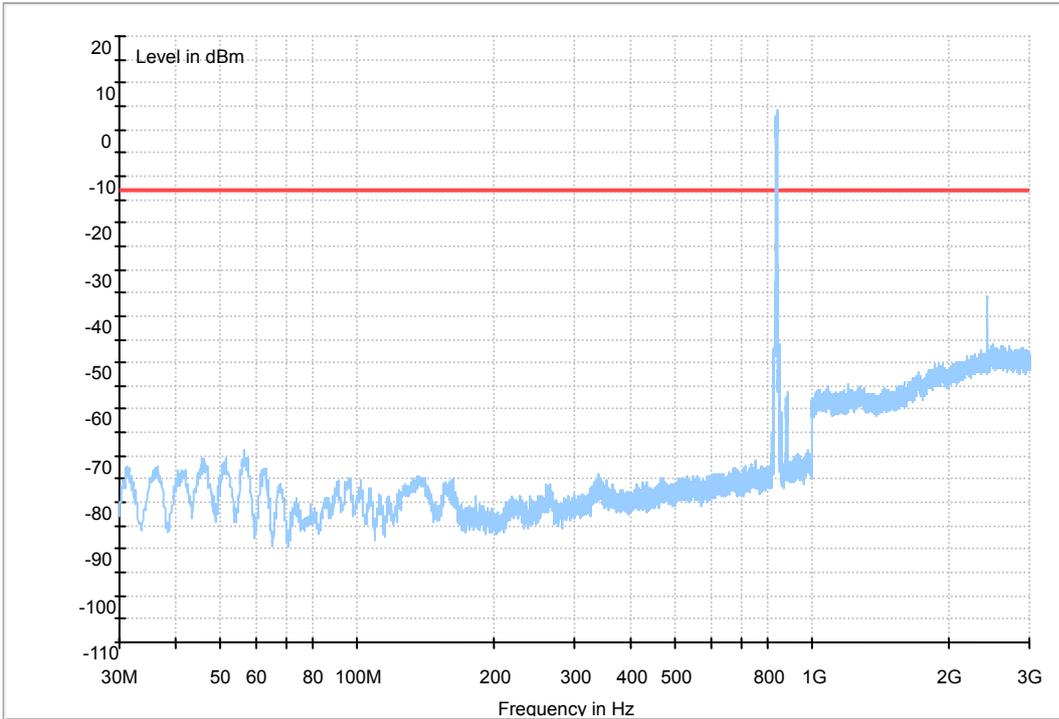


HSDPA 850

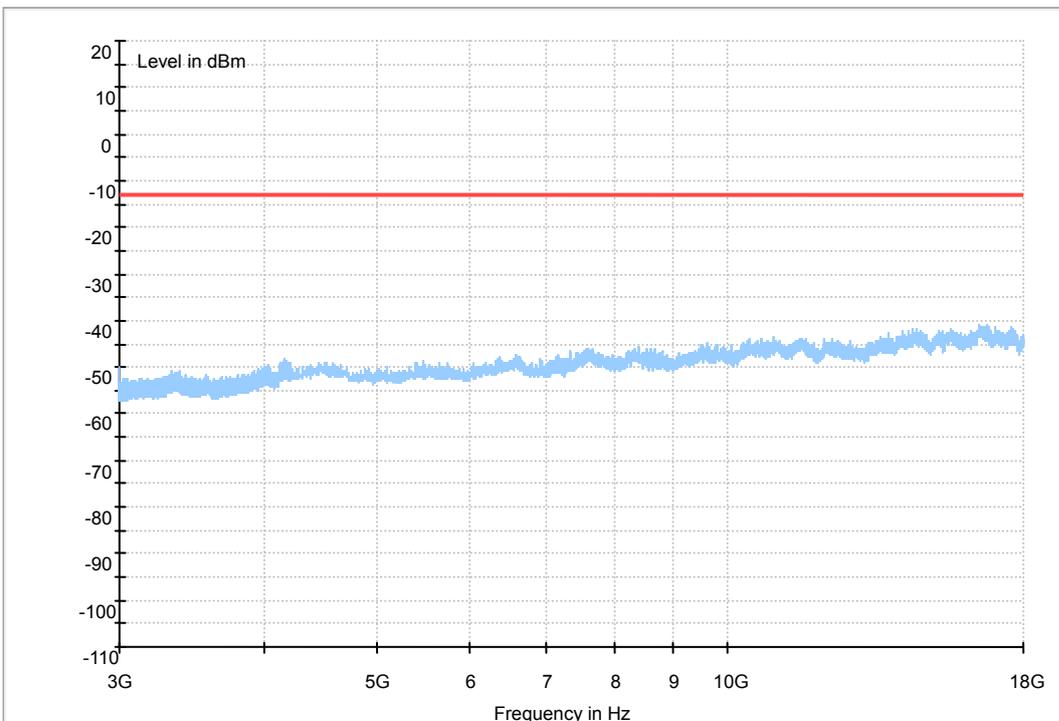
(9kHz~30MHz)



(30MHz~3GHz)

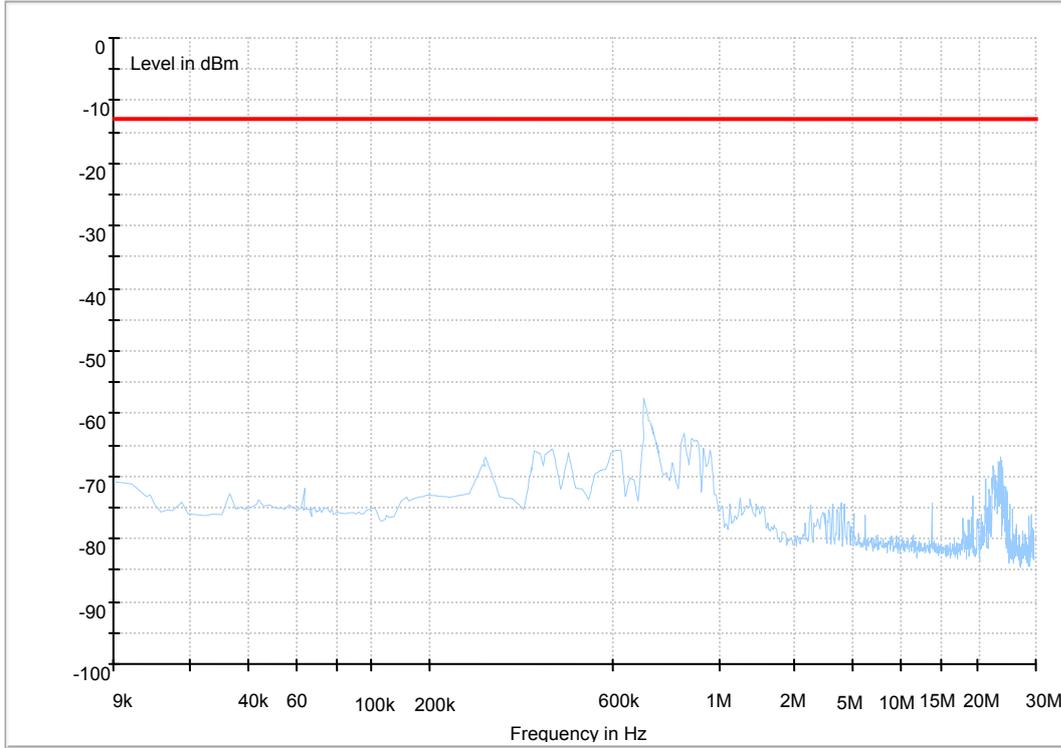


(3GHz~18GHz)

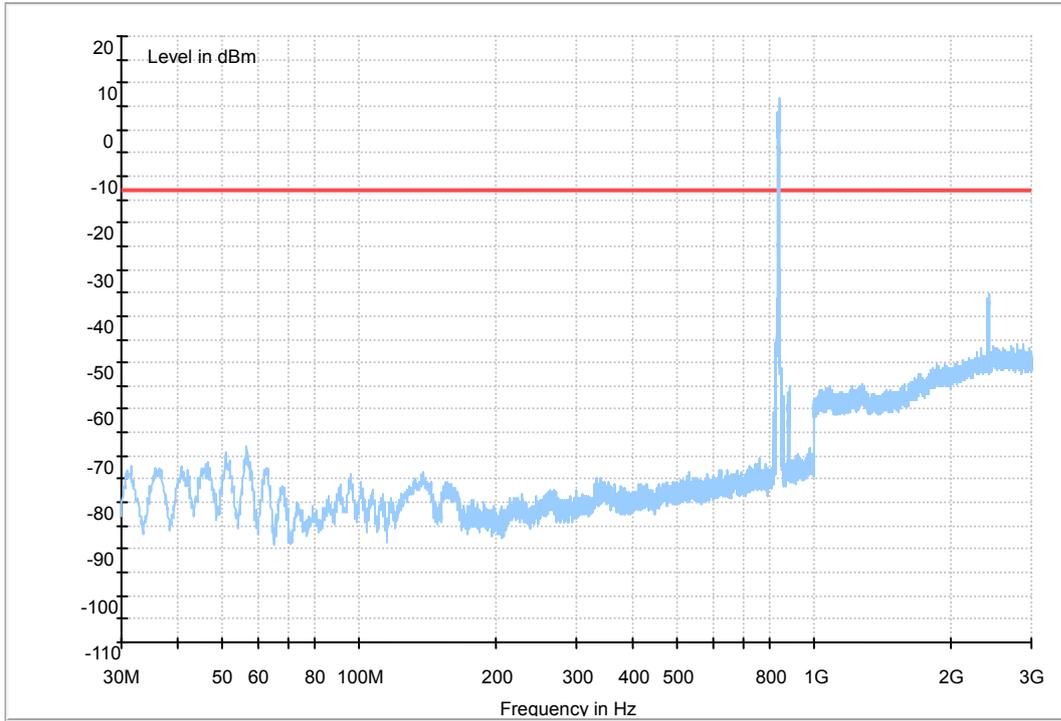


HSUPA 850

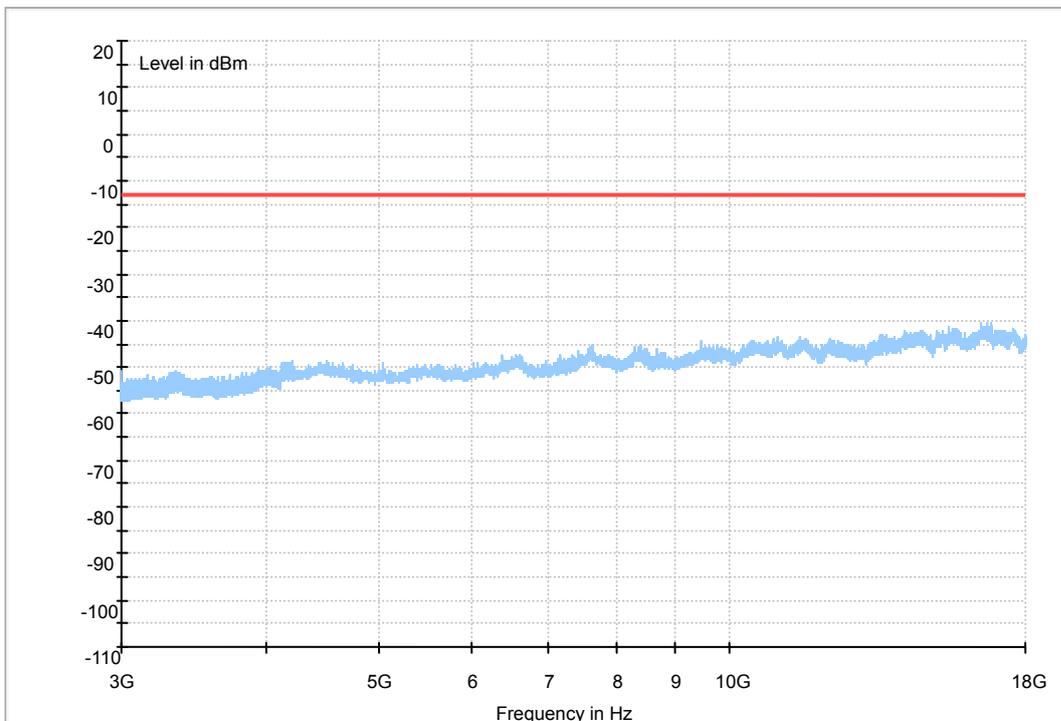
(9kHz~30MHz)



(30MHz~3GHz)

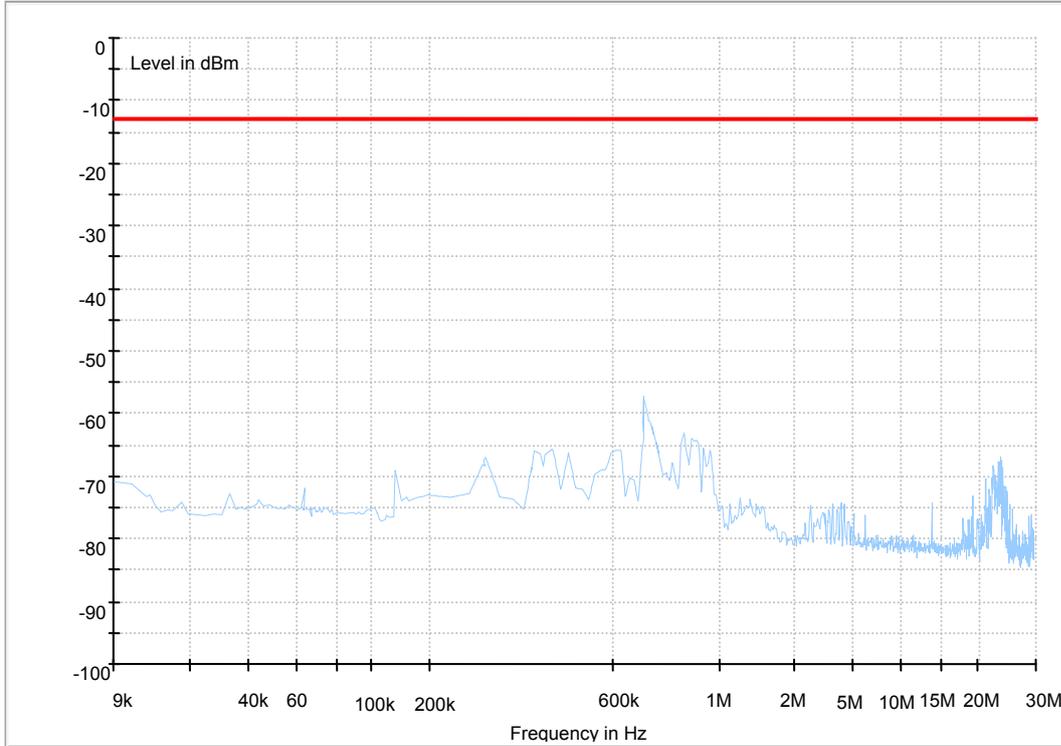


(3GHz~18GHz)

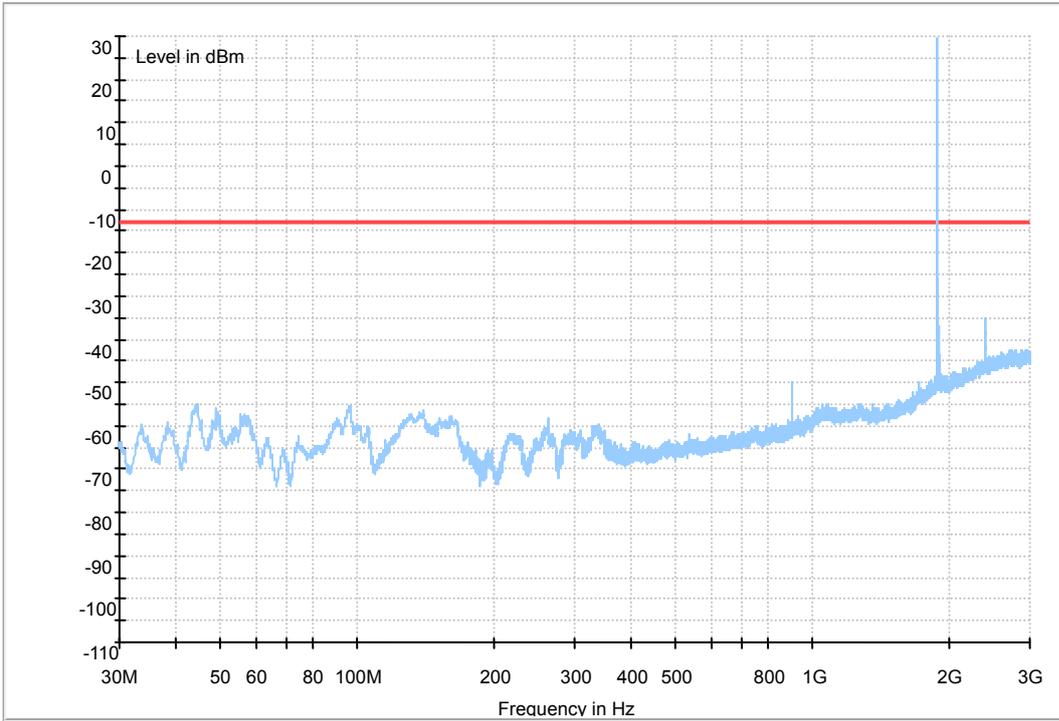


6.2 For GSM1900 & WCDMA1900

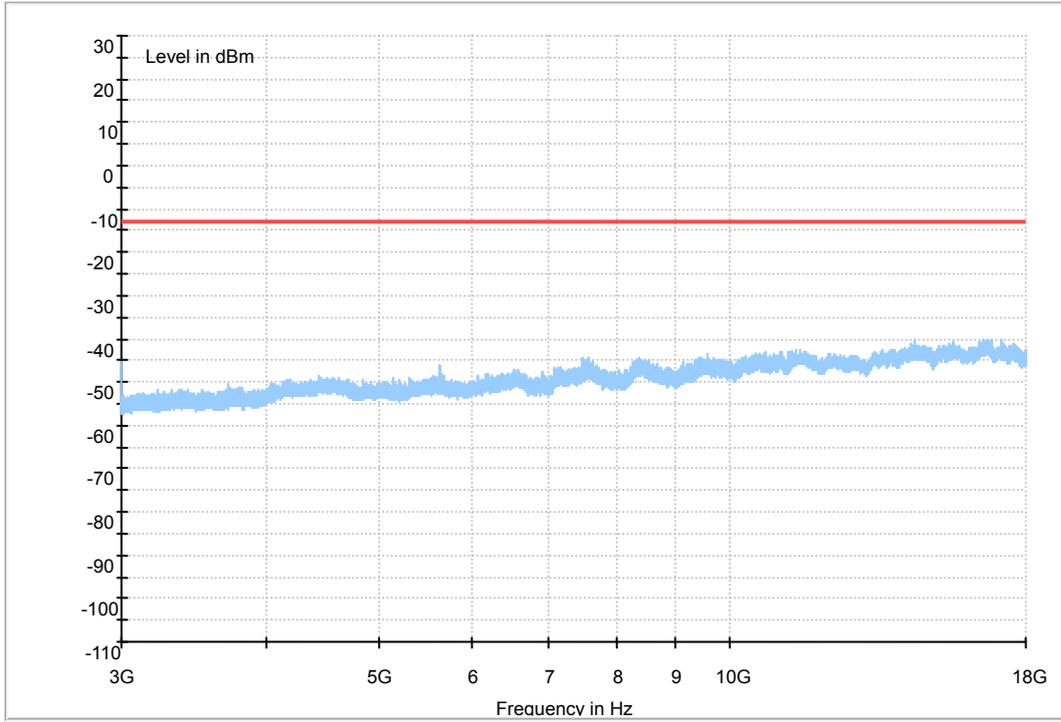
GSM 1900
(9 kHz-30MHz)



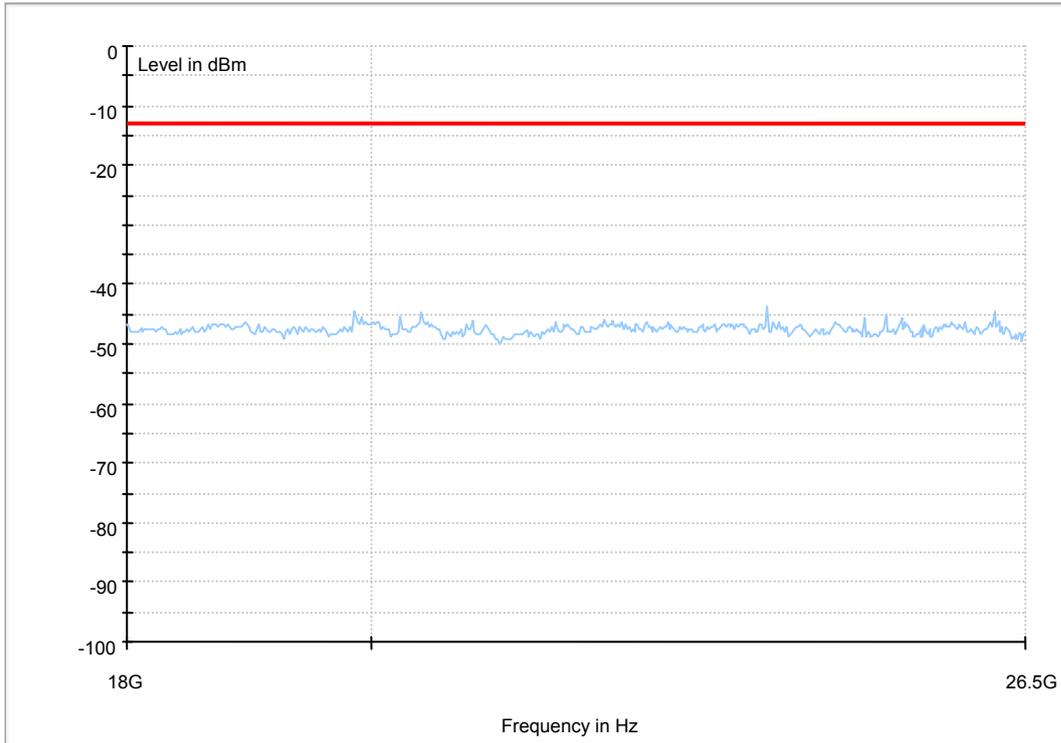
(30MHz~3GHz)



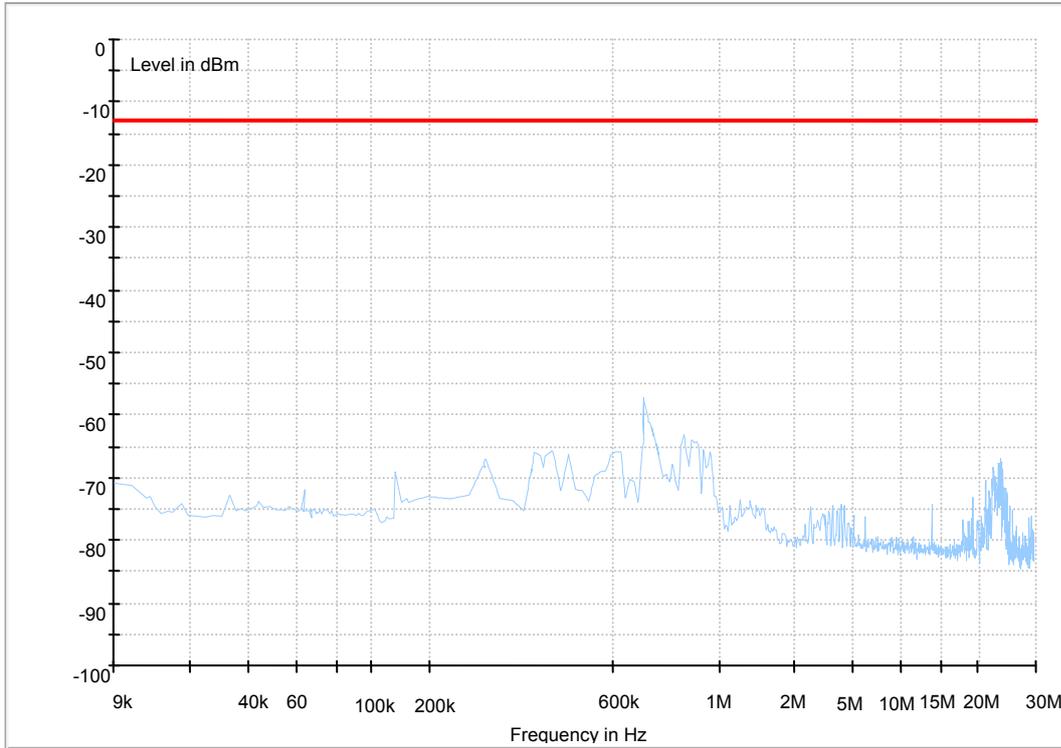
(3GHz~18GHz)



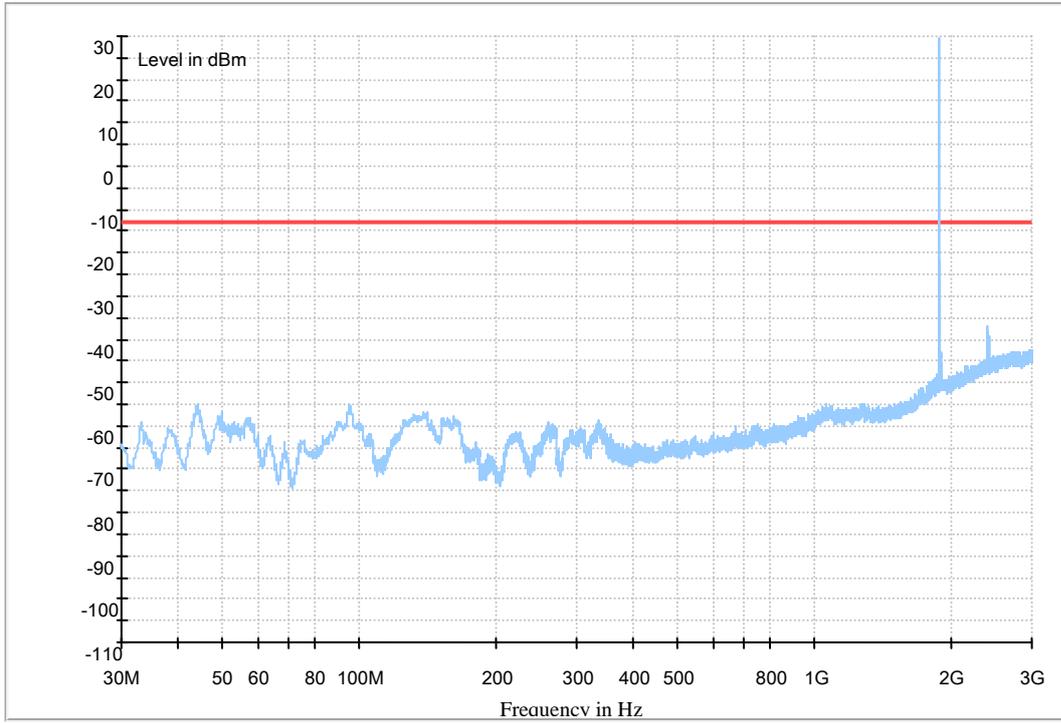
(18GHz-26.5GHz)



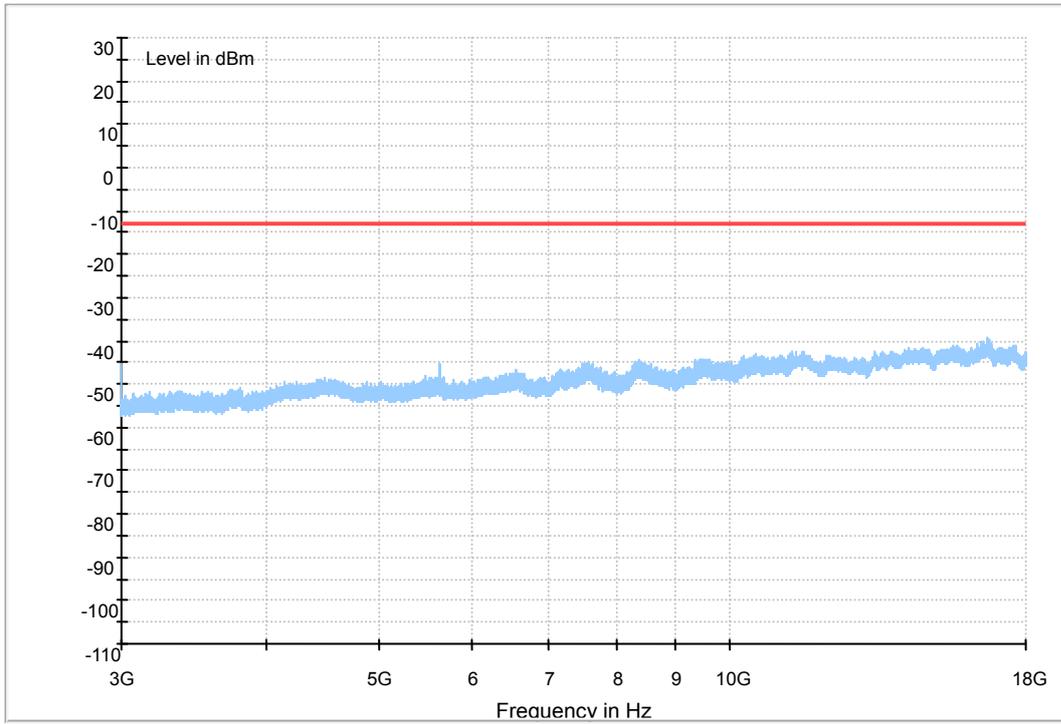
GPRS 1900
(9kHz-30MHz)



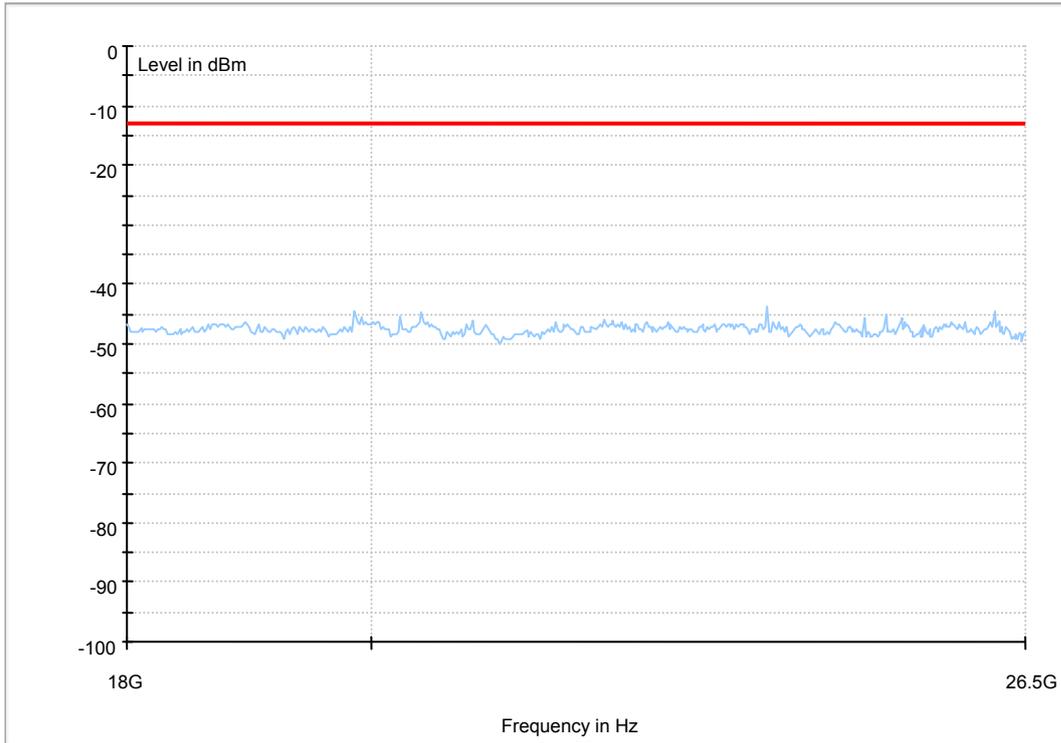
(30MHz~3GHz)



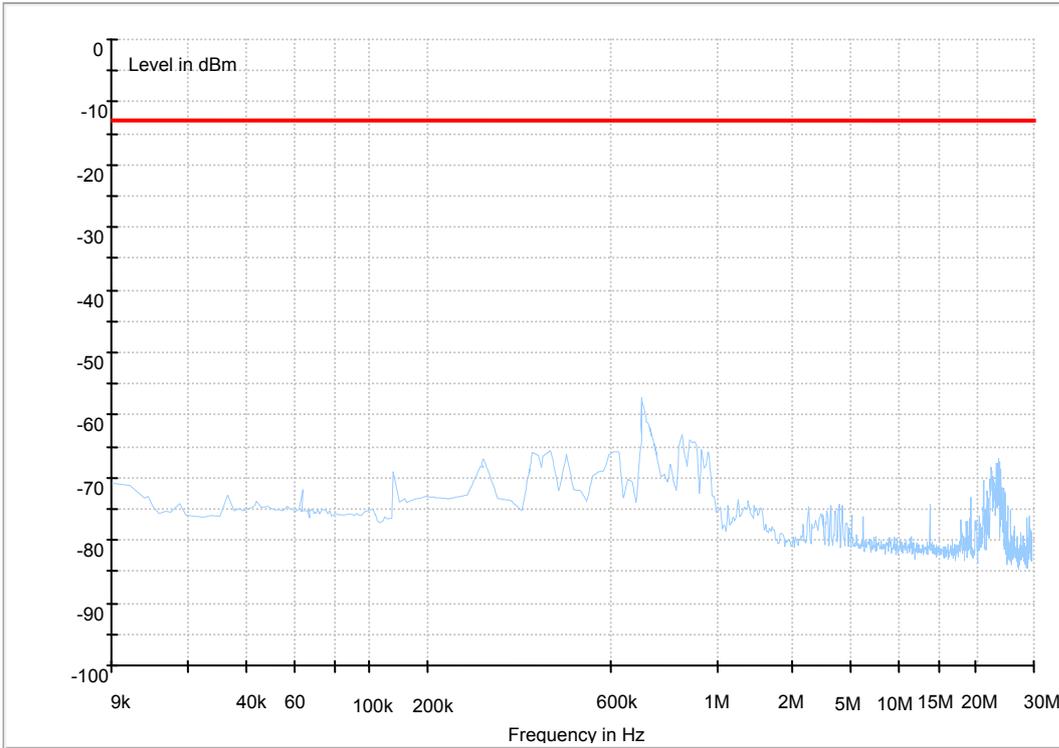
(3GHz~18GHz)



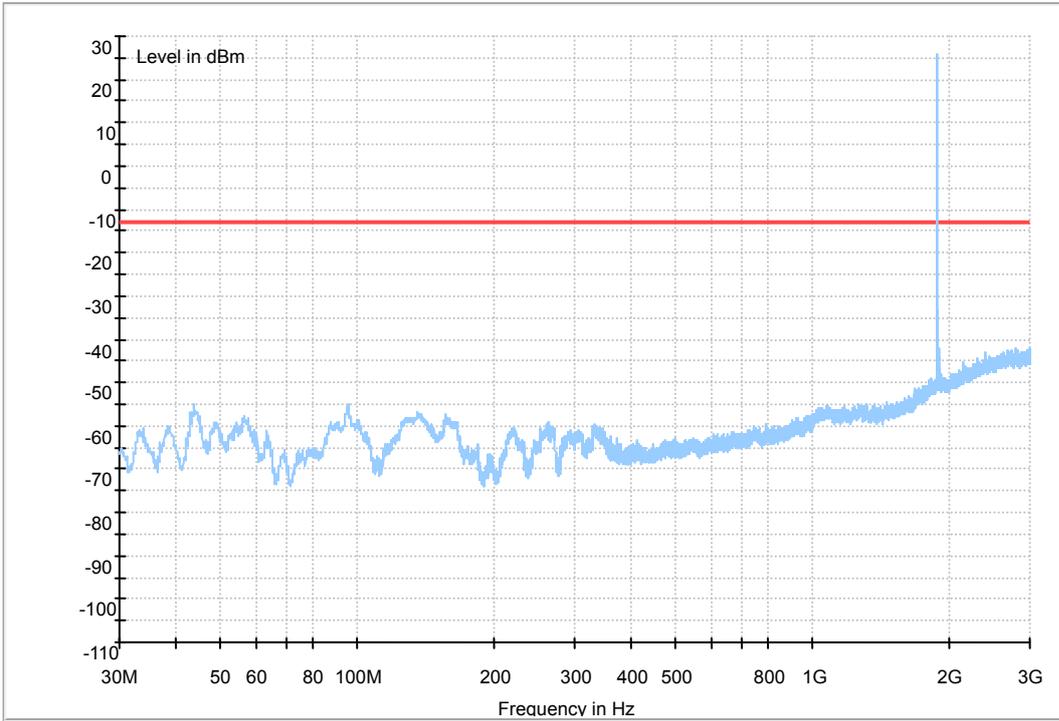
(18GHz-26.5GHz)



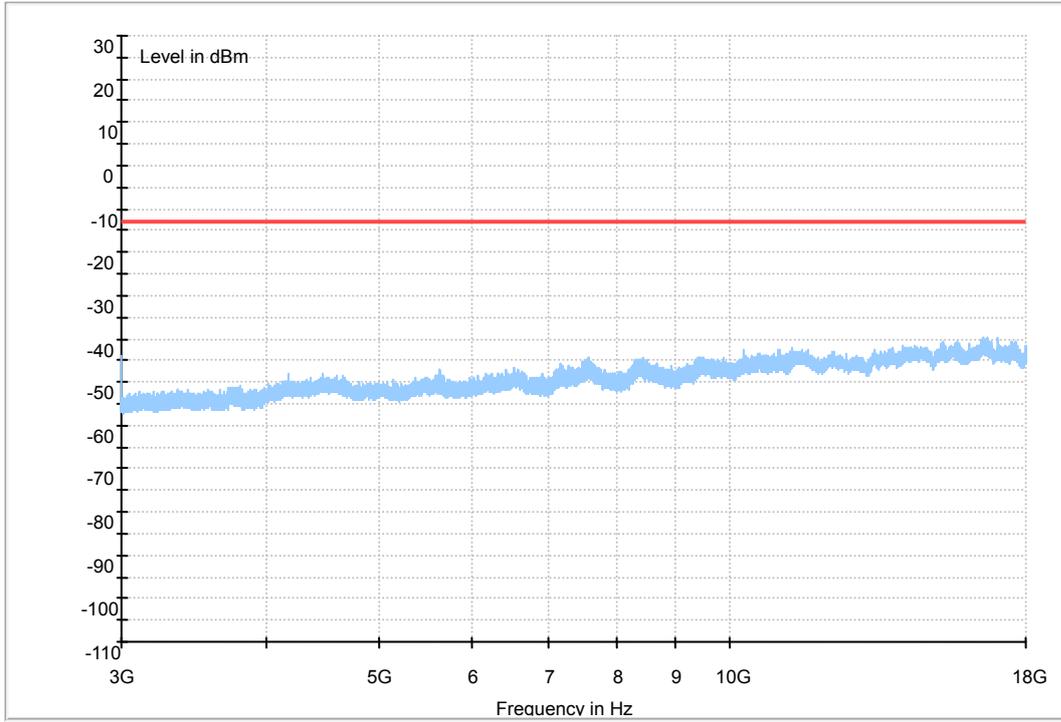
EDGE 1900
(9kHz-30MHz)



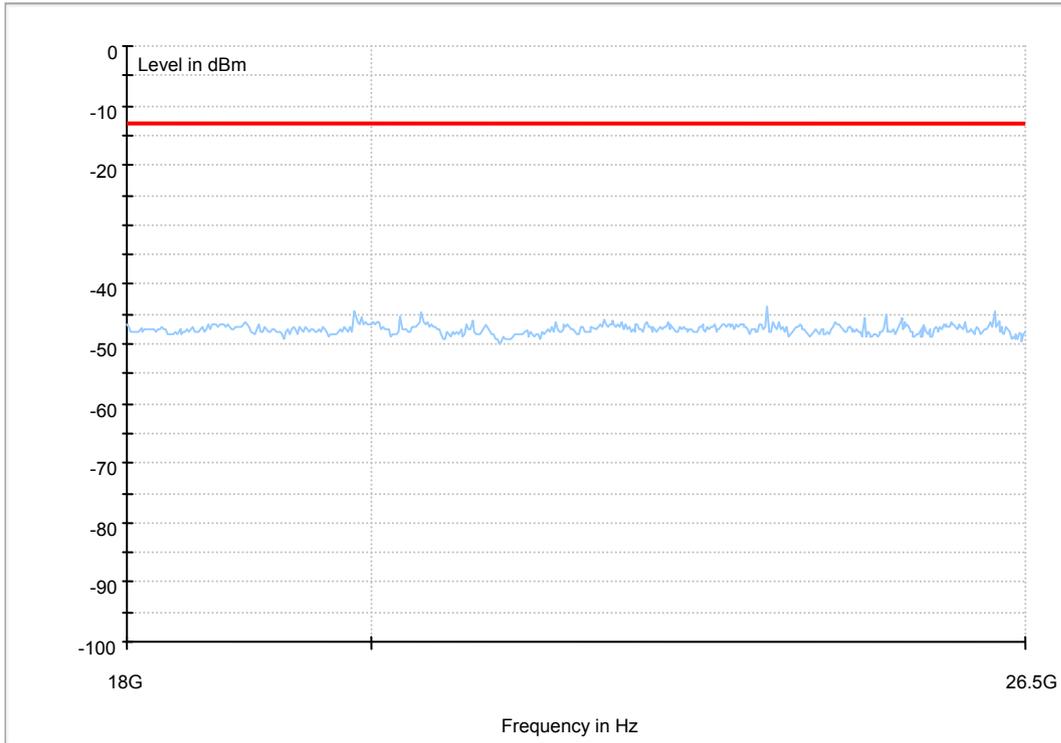
(30MHz~3GHz)



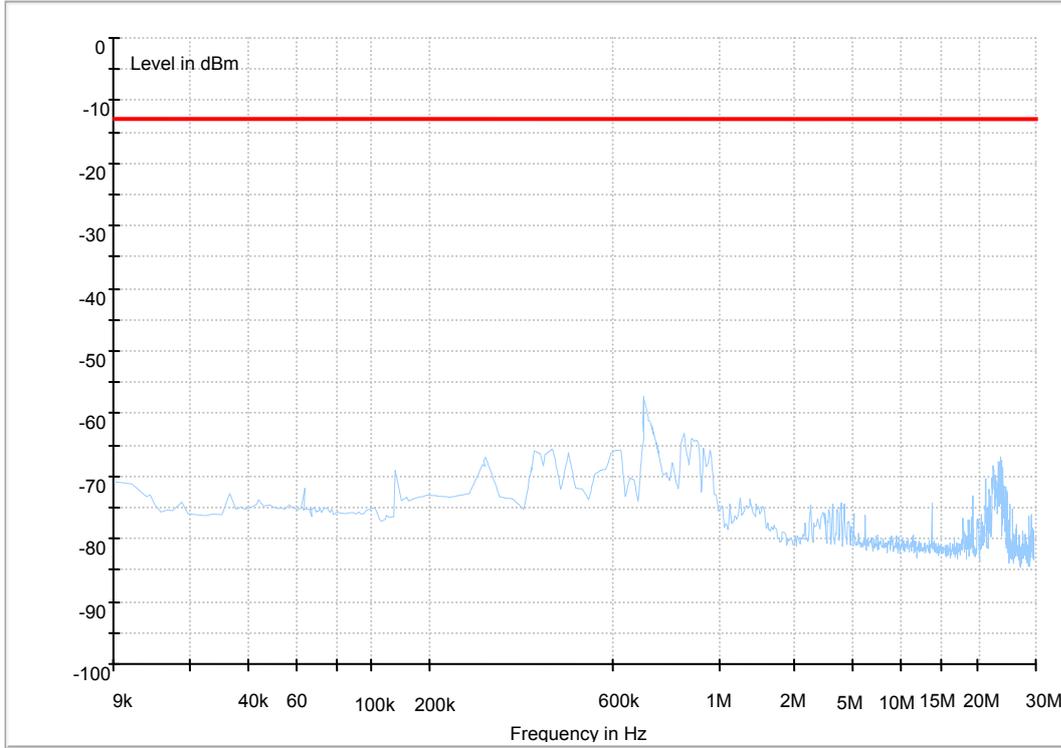
(3GHz~18GHz)



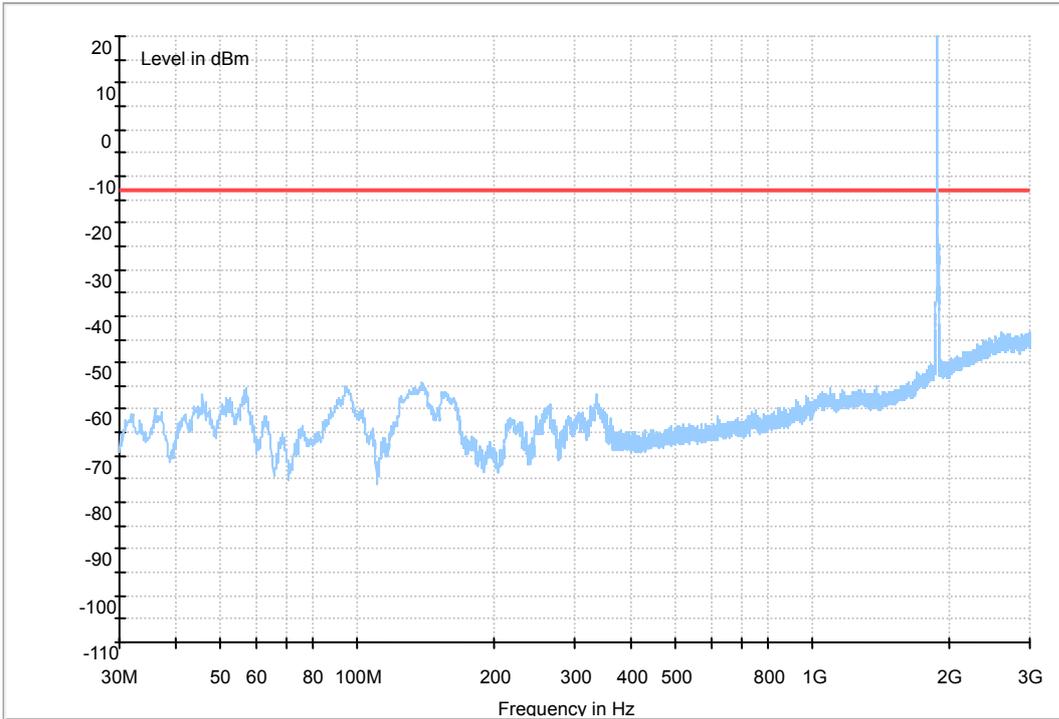
(18GHz-26.5GHz)



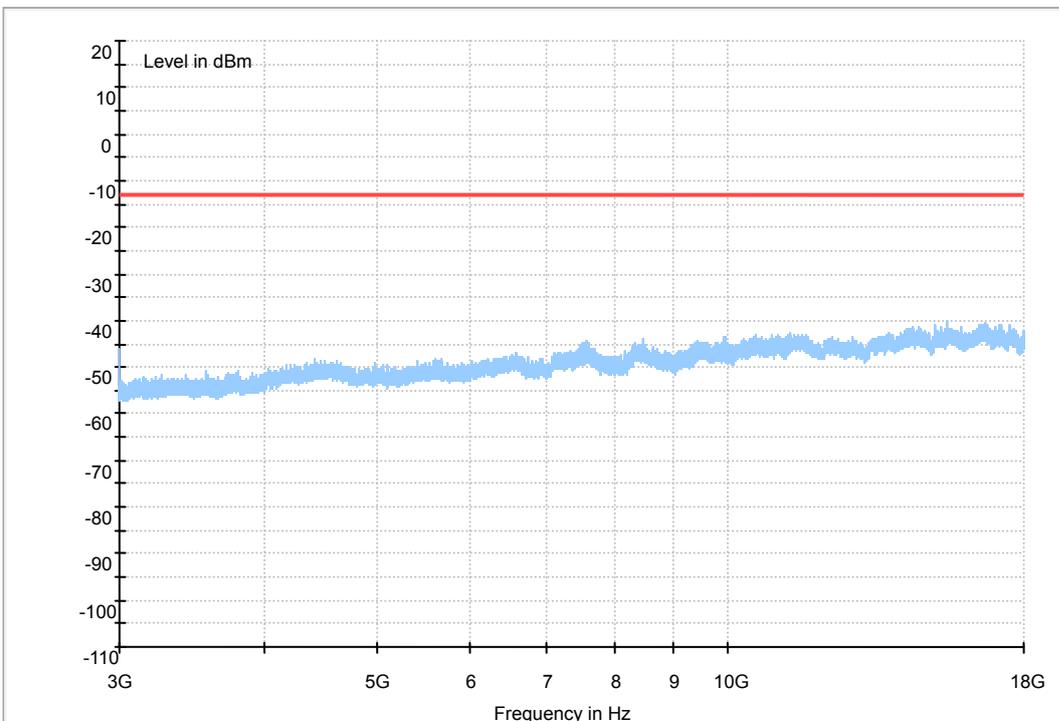
WCDMA 1900
(9kHz-30MHz)



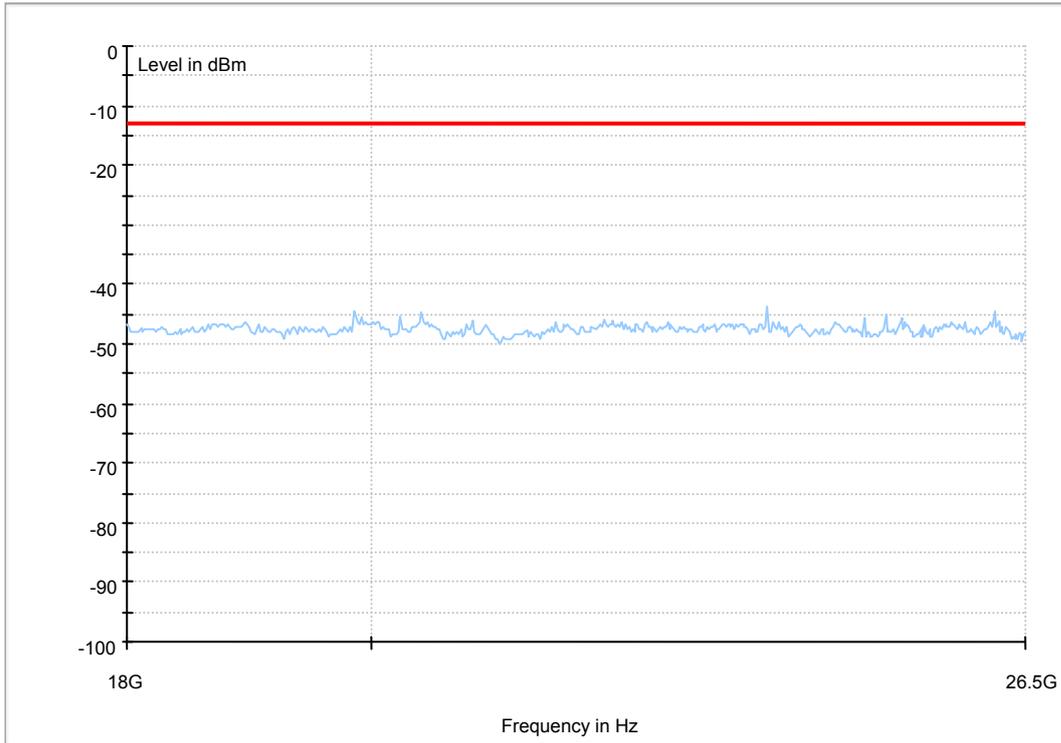
(30MHz-3GHz)



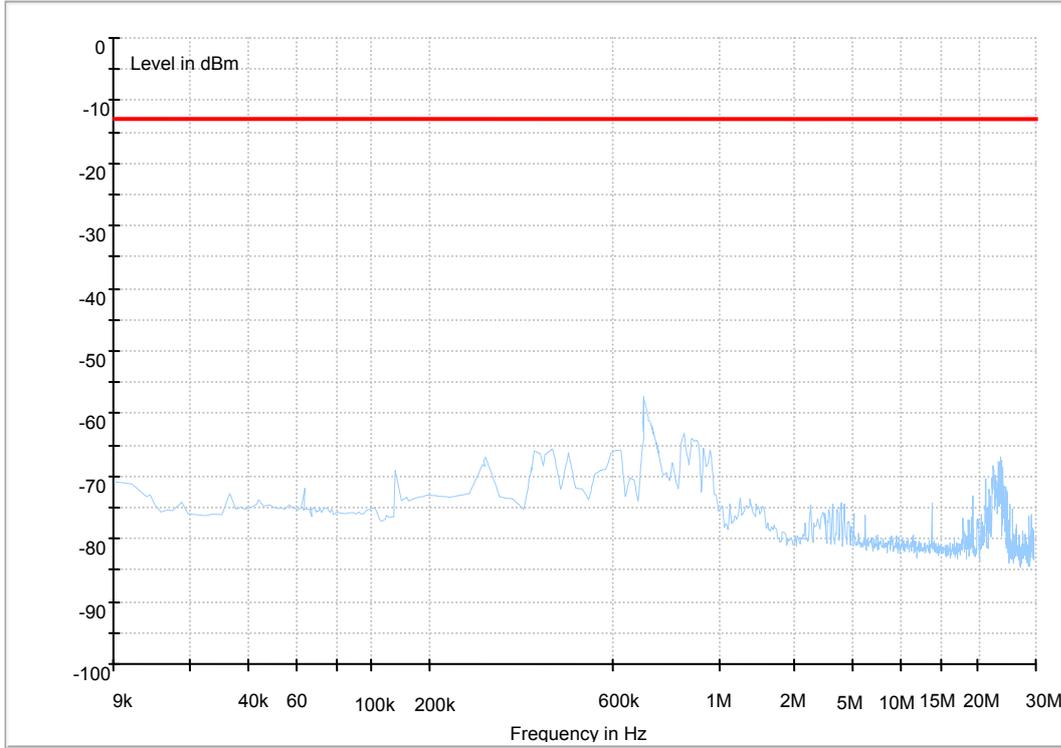
(3GHz-18GHz)



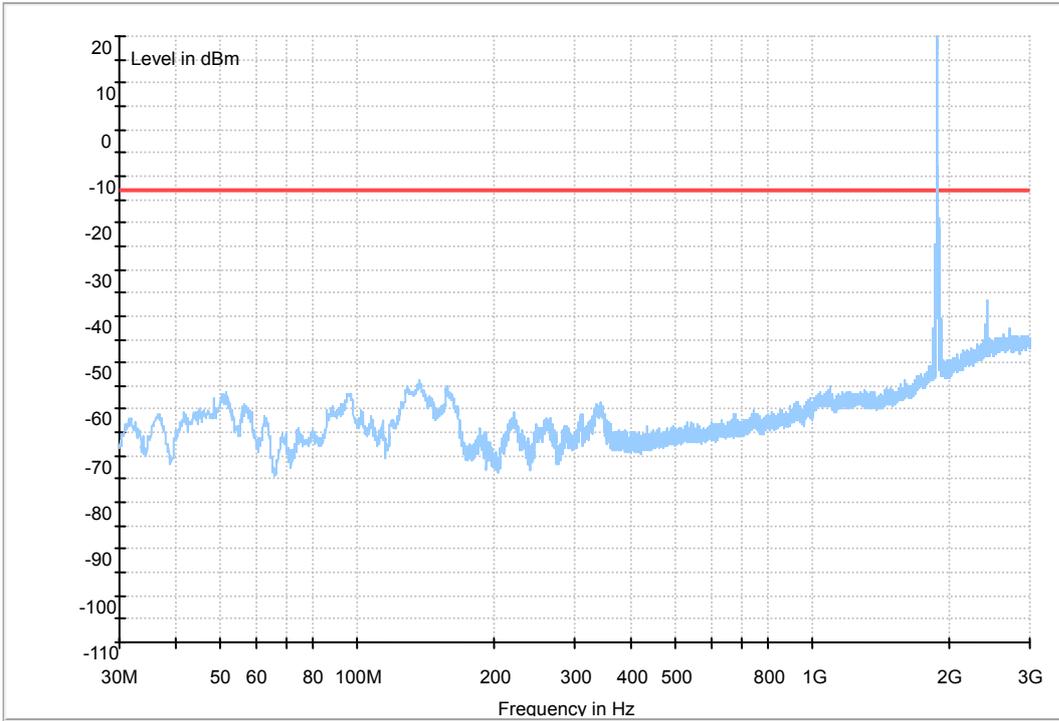
(18GHz-26.5GHz)



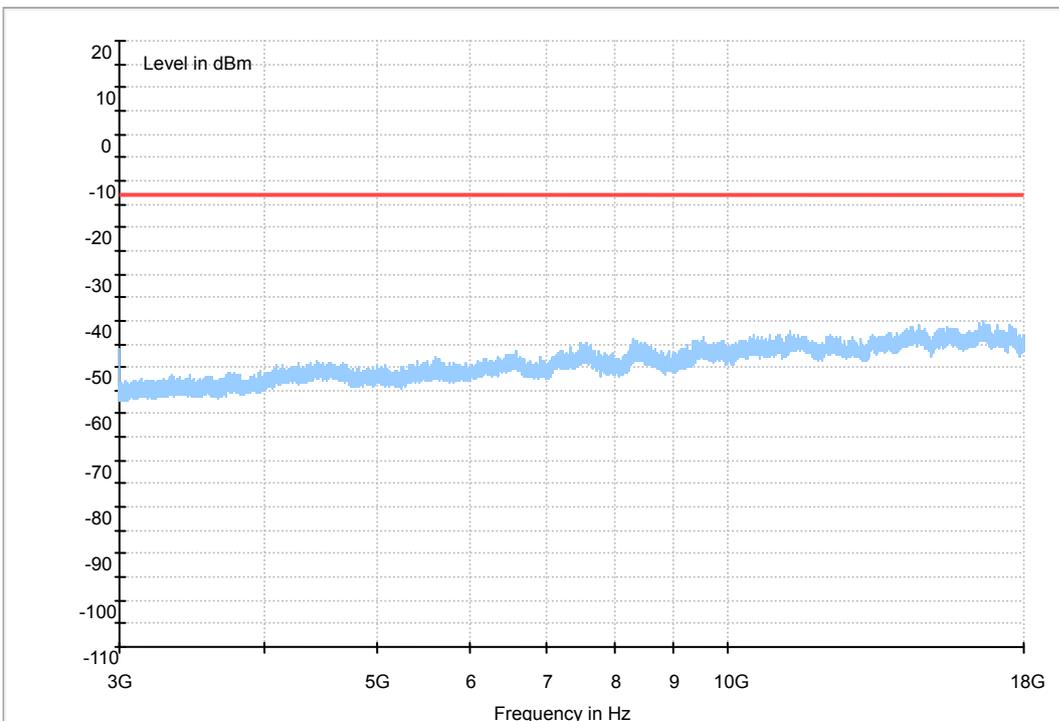
HSDPA 1900
(9kHz-30MHz)



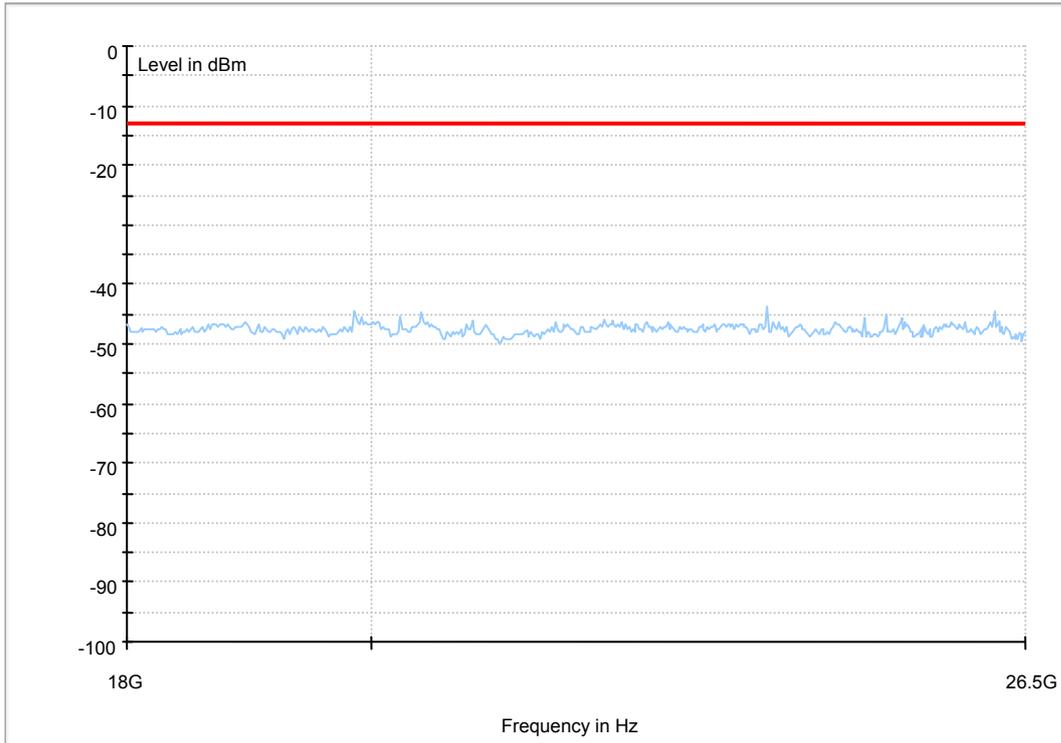
(30MHz-3GHz)



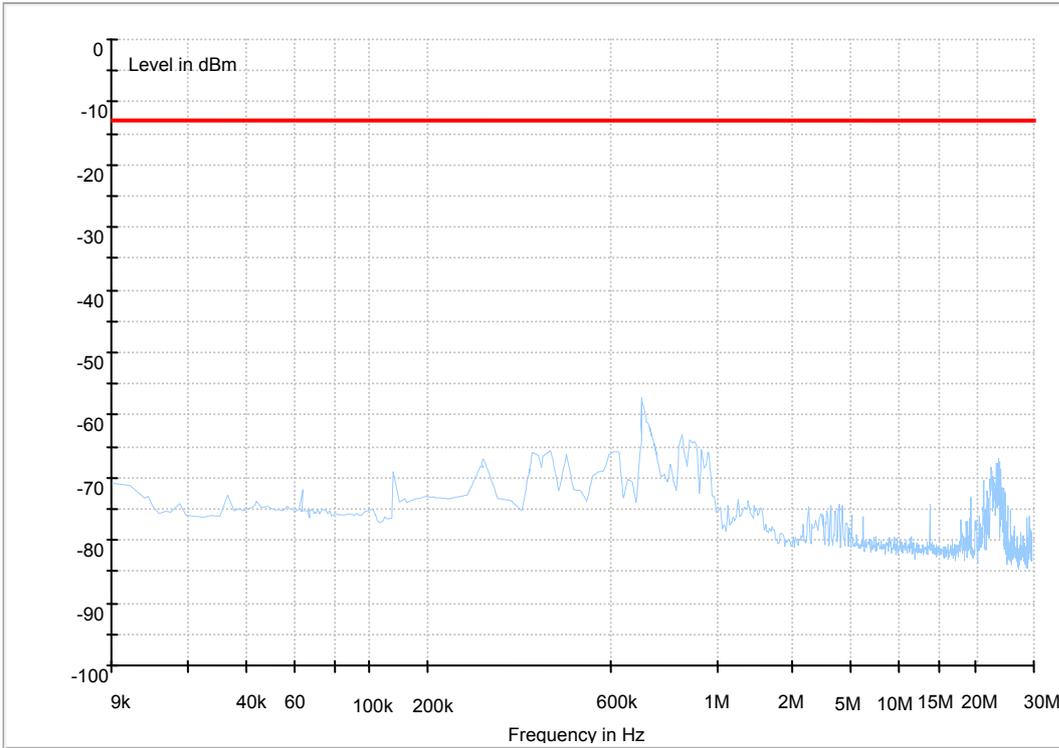
(3GHz-18GHz)



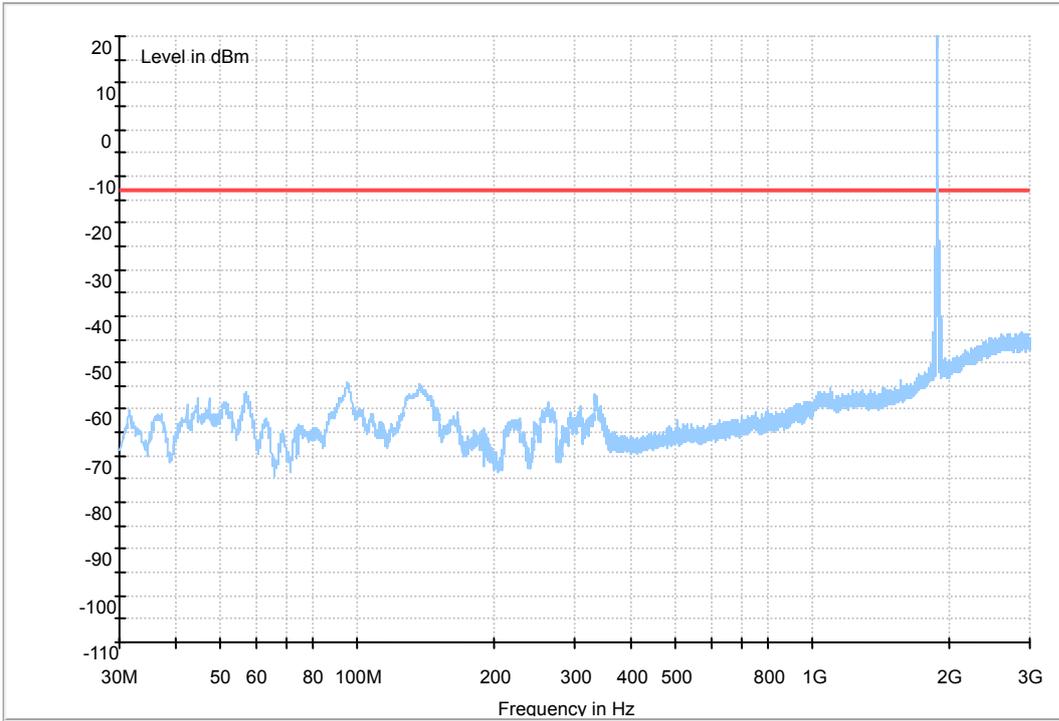
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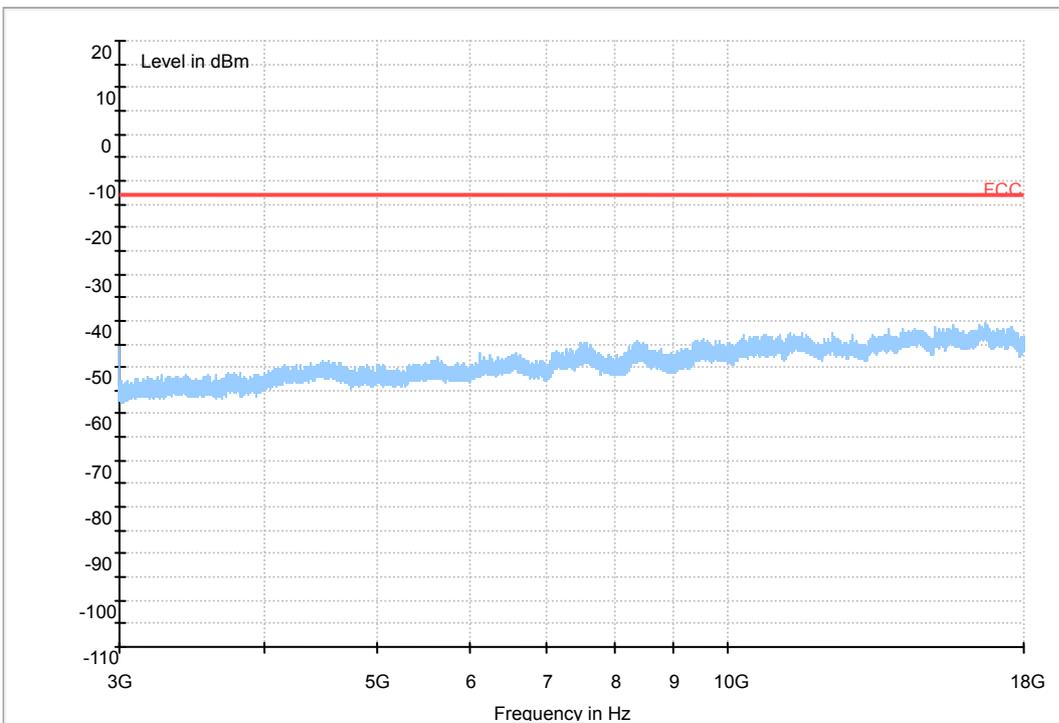
HSUPA 1900
(9kHz-30MHz)



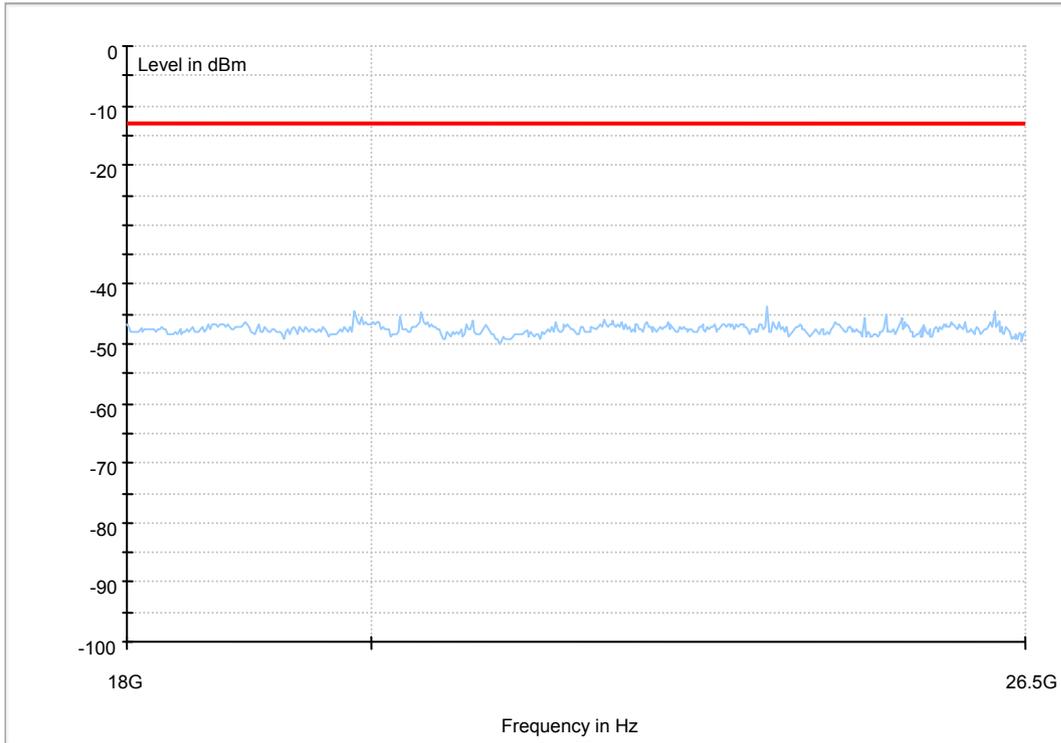
(30MHz-3GHz)



(3GHz-18GHz)

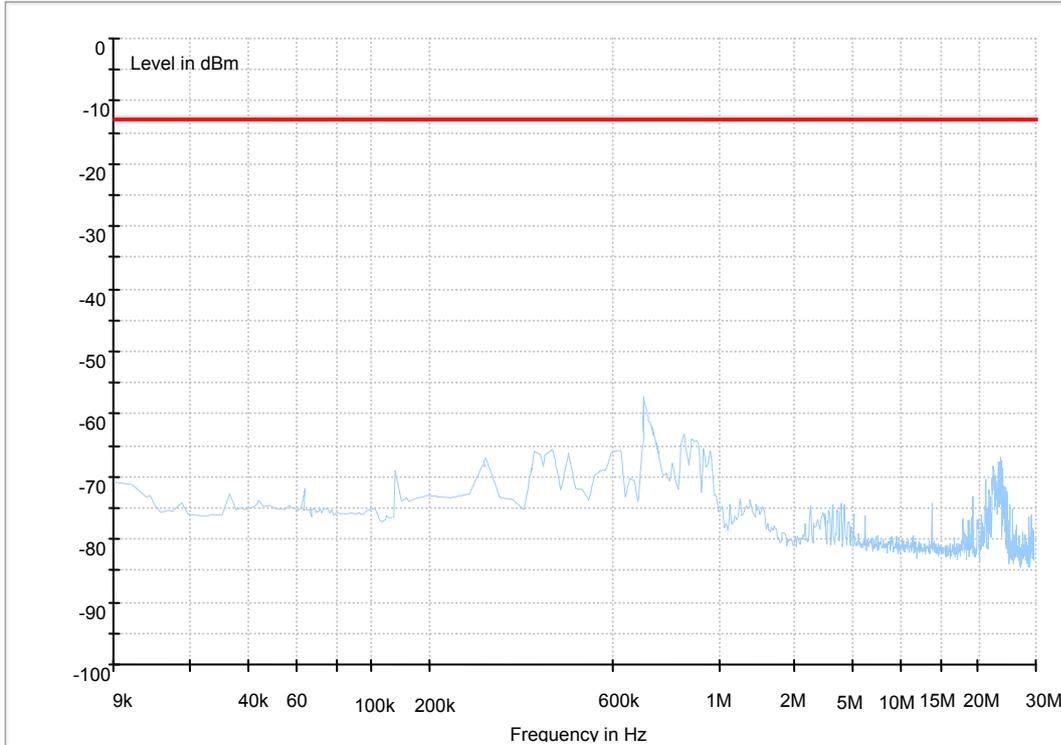


(18GHz-26.5GHz)

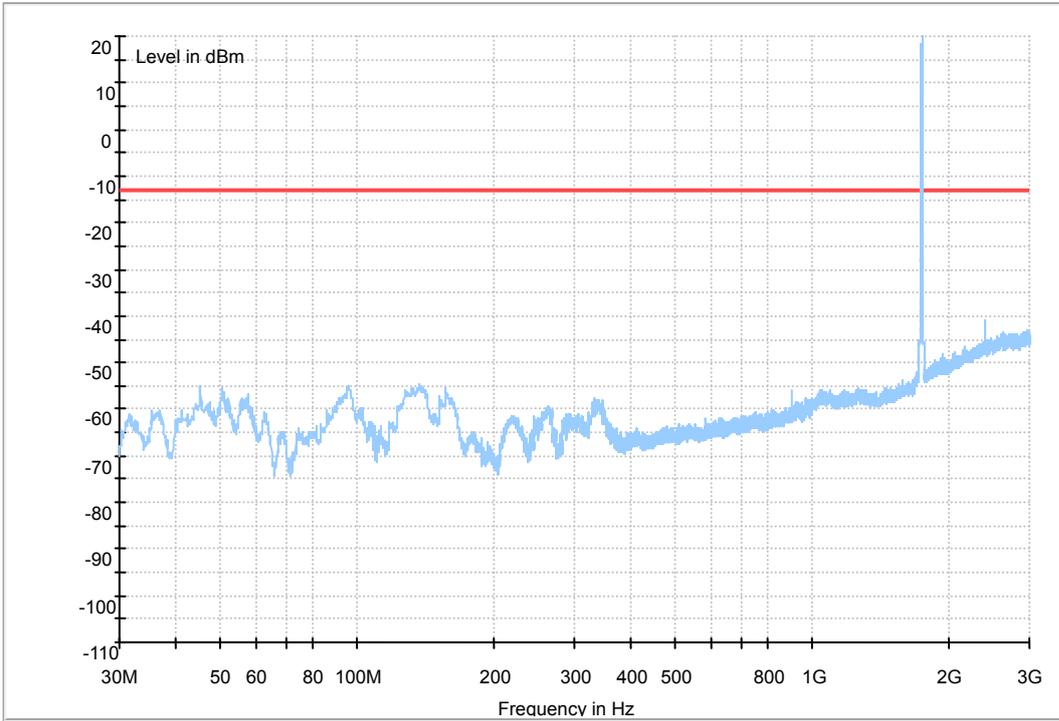


6.3 For WCDMA1700

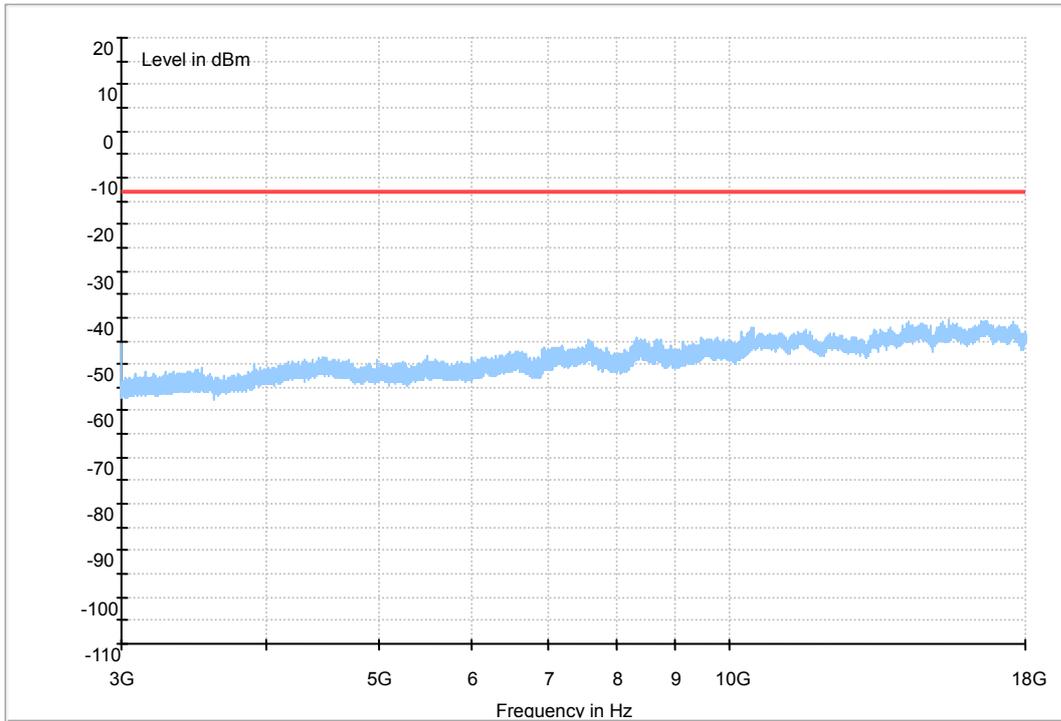
WCDMA 1700
(9kHz-30MHz)



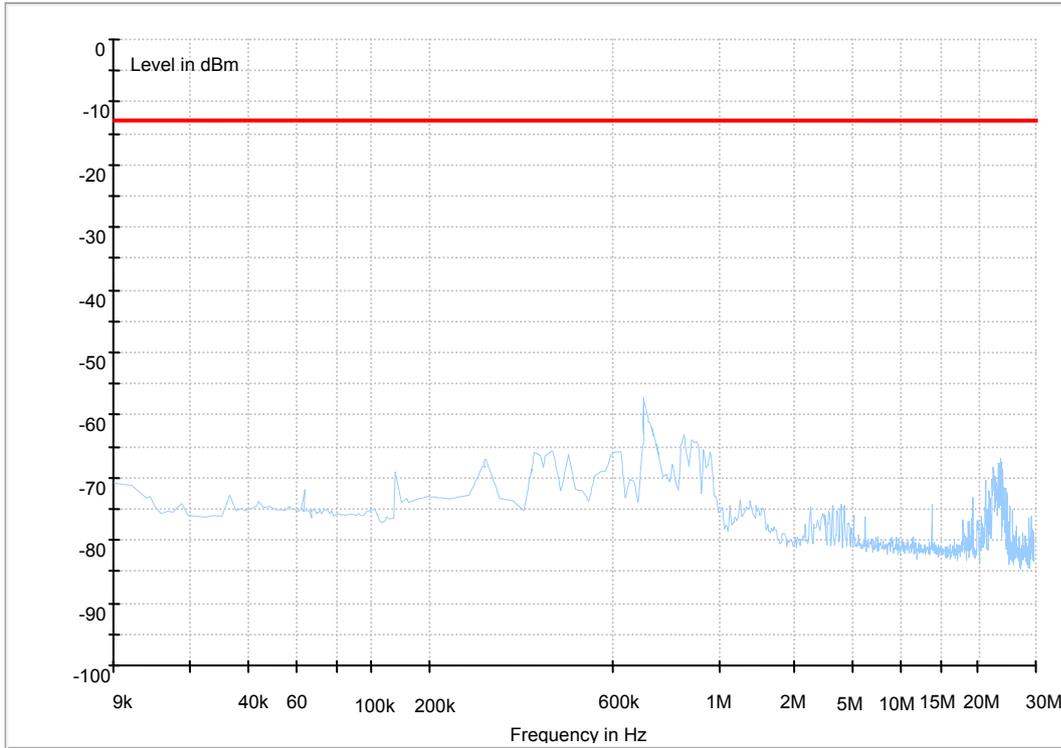
(30MHz~3GHz)



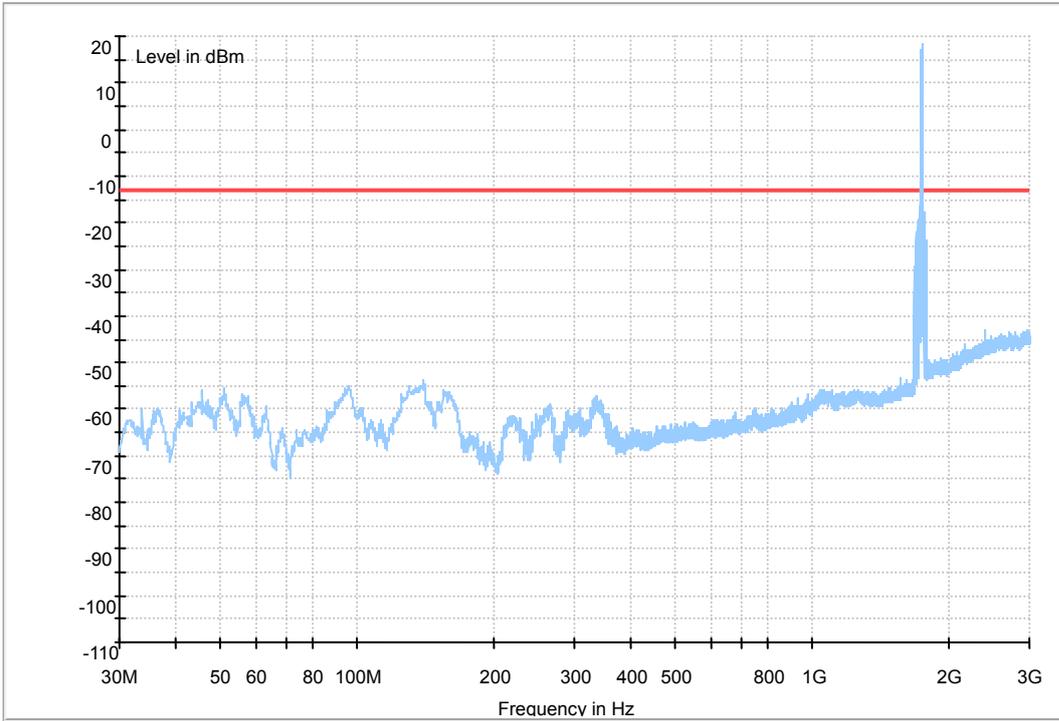
(3GHz~18GHz)



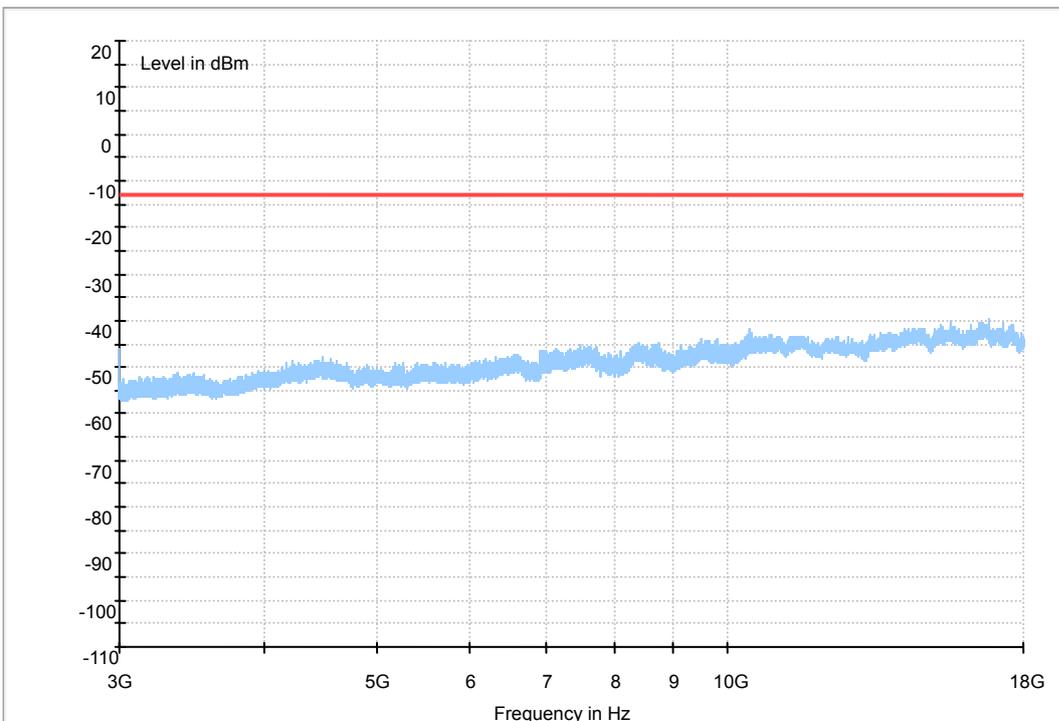
HSDPA 1700
(9kHz-30MHz)



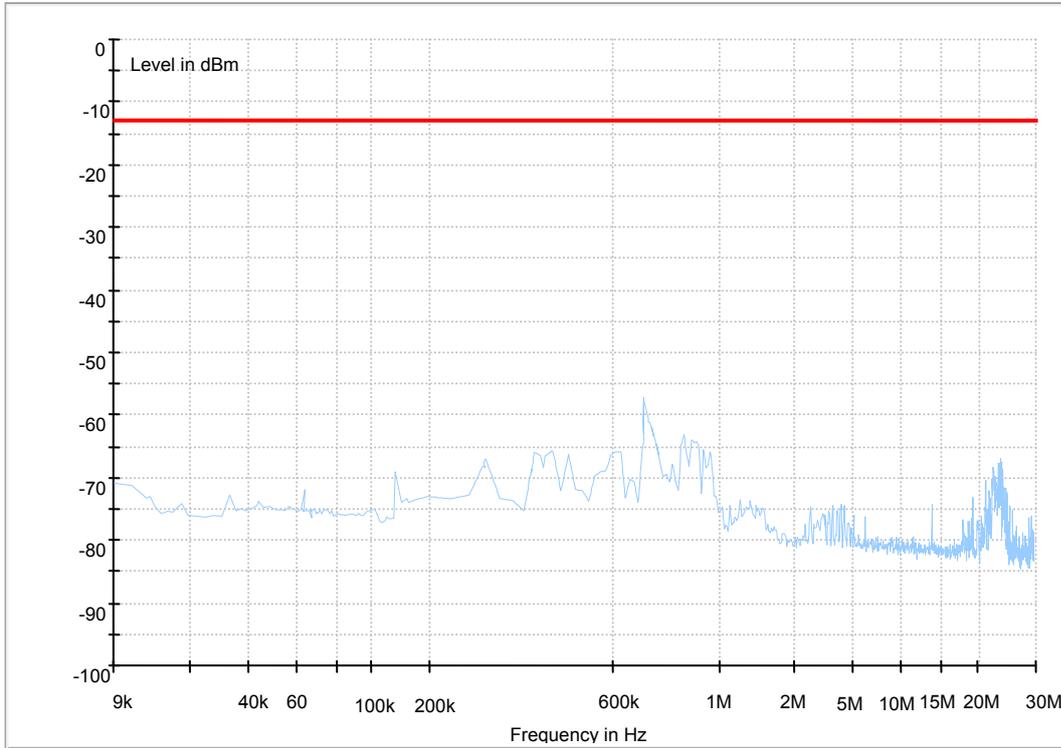
(30MHz~3GHz)



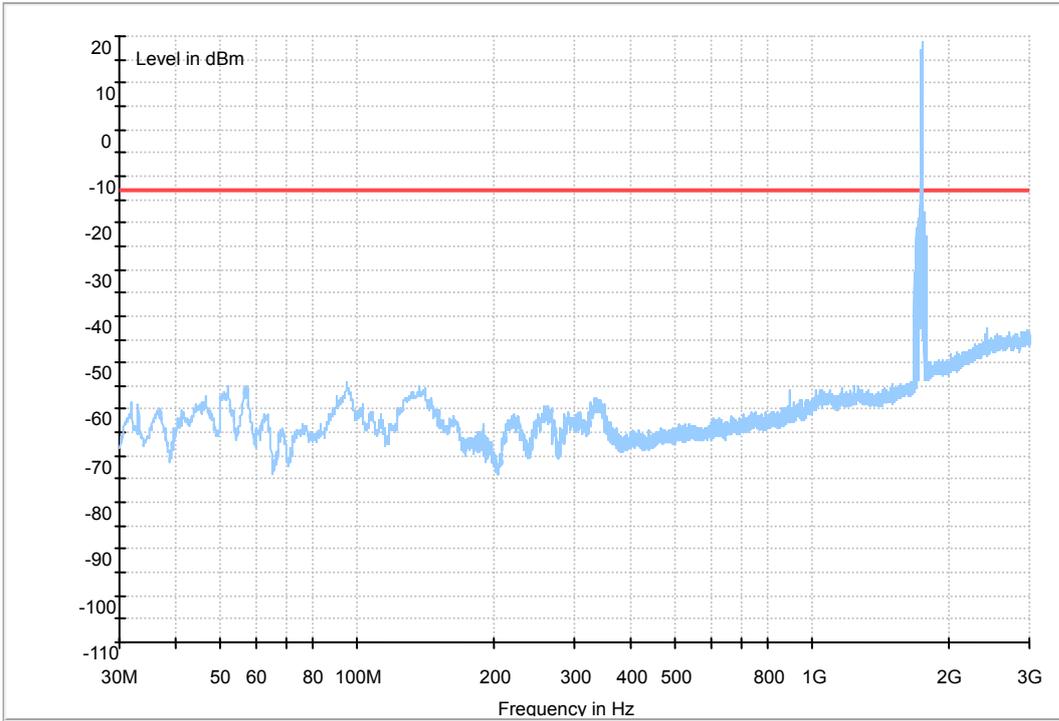
(3GHz~18GHz)



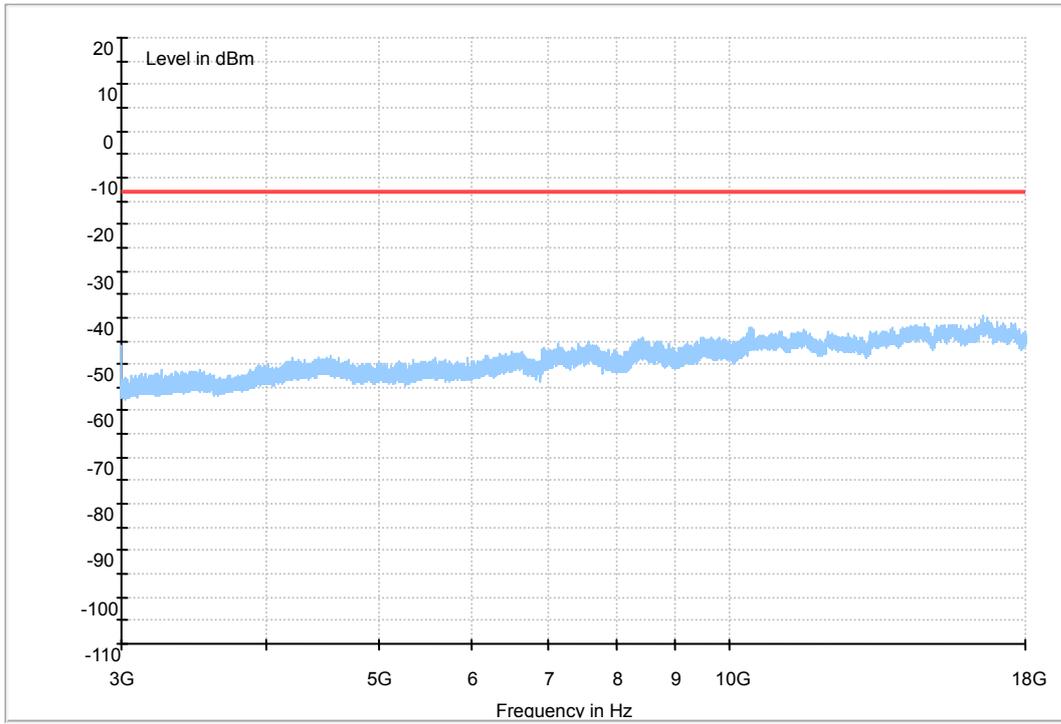
HSUPA 1700
(9kHz-30MHz)



(30MHz~3GHz)



(3GHz~18GHz)



END